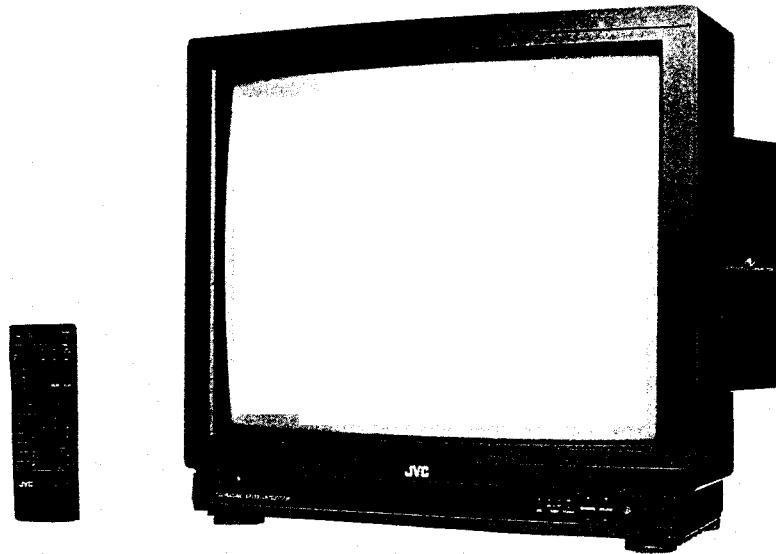


JVC**SERVICE MANUAL**MODEL **AV-S250EKT**

BASIC CHASSIS
BY-II



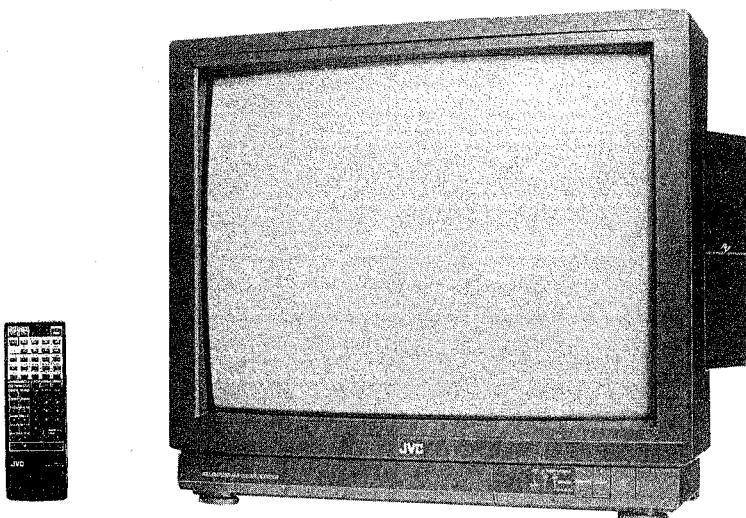
JVC

SERVICE MANUAL

25" COLOUR TV

MODEL AV-S250ENT

BASIC CHASSIS
BY-II



CONTENTS

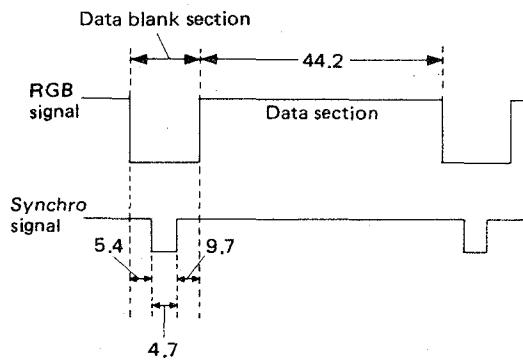
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SPECIFICATIONS

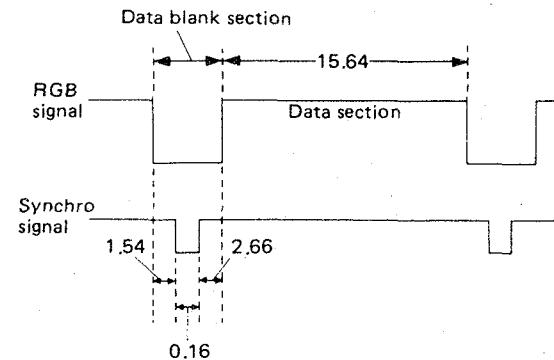
Dimension	65.8cm(W) x 44.8cm(D) x 51.2cm(H)
Weight	31.0kg
TV System & Colour System	
TV RF System	CCIR B/G
Colour System	PAL
Receiving Channel & Frequency	
VHF Ch. (VL: E ₂ ~ E ₄ , ITALY A ~ C)	47MHz ~ 68MHz
(VH: E ₅ ~ E ₁₂ , ITALY D ~ H)	174MHz ~ 230MHz
UHF Ch. (U: E ₂₁ ~ E ₆₉)	470MHz ~ 862MHz
CATV Receiving Channel & Frequency	
MID Band (X CH.~ Z CH)	68MHz ~ 89MHz
HYPER Band (S ₁ CH.~ S ₄₁ CH)	104MHz ~ 470MHz
Intermediate Frequency	
V. IF Carrier	38.9MHz
S. IF Carrier	33.4MHz (5.5MHz)
Colour Sub Carrier	PAL (4.43MHz)
ANT Input Impedance	75Ω Unbalanced
Power Input	220V AC, 50Hz
Power Consumption	150W (max.)/110W (avg.)
Picture Tube	63cm (25") In-Line Type Flat-Square Tube
Viewable Picture Size	36.2cm(H) x 47.6cm(W)
High Voltage	26.5kV ±1kV (at zero beam current)
Speaker	10cm Round Type, 8Ω x 2 3cm Round Type, 440Ω x 2
Audio Power Output	10W + 10W
21 Pin PERI Socket (Euro Connector)	
Video Input	1 Vp-p, 75Ω
Audio Input	500 mVrms (Standard), High Impedance
Video Output	1 Vp-p, 75Ω
Audio Output	500 mVrms (Standard), Low Impedance
R/G/B Input	700 mVp-p, 75Ω
S-Video Input	Y: 1 Vp-p Positive, 75Ω (Negative Sync. Provided) C: 0.3 Vp-p (Burst Signal), 75Ω
Audio External Input (RCA Pin Jack)	500mVrms, High Impedance
TV Audio External Output (RCA Pin Jack)	920mVrms, Low Impedance
External Speaker Terminal	8Ω x 2
Tube	1
IC	53 (In TV), 1 (In Remocon.)
Transistor	172 (In TV), 2 (In Remocon.)

Recommend input signal (21 Pin PERI Socket)

H. SYNC period (μ sec.)



V. SYNC period (m sec.)



(Design and specifications subject to change without notice)

SAFETY PRECAUTION

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual many create shock, fire, or other hazards.
4. **Don't short between the LIVE side ground and NEUTRAL side grounding or EARTH side ground when repairing.** Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (L) side GND, the NEUTRAL (N) side GND and EARTH (E) side GND. Don't short between the LIVE side GND and NEUTRAL side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and NEUTRAL side GND or EARTH side GND at the same time. If above note will not be kept, a fuse or any parts will be broken.
5. If any repair has been made to the chassis, it is recommended that the B₁ setting should be checked or adjusted (See ADJUSTMENT OF B₁ POWER SUPPLY).
6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.
9. **Isolation Check (Safety for Electrical Shock Hazard)** After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3,000V AC (r.m.s.) for a period of one second.

Withstand a voltage of 1,100V AC (r.m.s.) to an appliance rated up to 120V, and 3,000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.

This method of test requires a test equipment not generally found in the service trade.

(2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

• Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.).

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

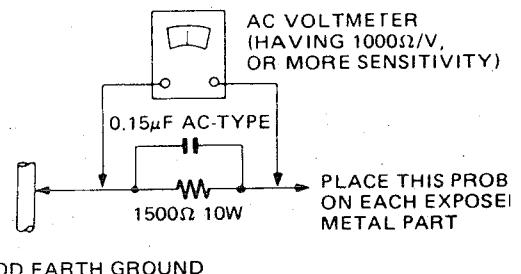


Fig. A

FEATURES

1. Adoption of PERI SOCKET with PERI Circuit.
2. Adoption of Module board with highly simplified circuit structure.
3. Newly incorporated is an OFF-TIMER with functions of max. 2-hour time setting in 30-min. units and of time balance indication.
4. An ON-TIMER also offers max. 24-hour time setting in 1-hour units plus time balance indicating function.
5. Multifunctional remote-controlling system enables controlling from a location away from the device of ON-TIMER, OFF-TIMER, ON-SCREEN, POWER, PRESET, VTR and others.
6. With STEREO Multi-surround system.
7. V. HOLD and H. HOLD are deleted as a result of employment of IC (IC201) with built-in deflection circuit that adopts the countdown method for V./H. OSC.
8. A sound multiplex circuit is contained which enables reception of sound multiplex broadcasts (UK DIGITAL SOUND).
9. (Hyper) tuner compatible with CATV.
10. The PLL synthesizer formula is employed for the S. SELECT circuit of the tuner.
11. The TELETEXT function is built in.

OUTLINE

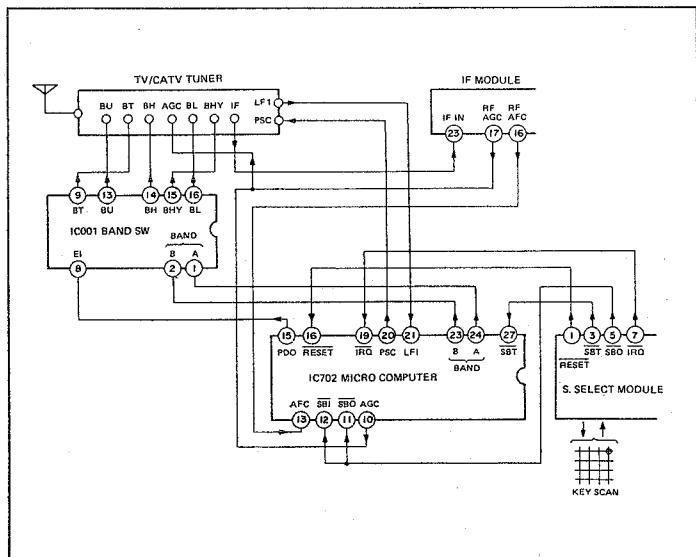
- THIS CHASSIS CONFIGURATION FOR THIS EQUIPMENT COMPRIMSES ABOUT 6 GENERAL BOARDS and 6 MOUDLE BOARDS. THEIR CONTENTS ARE AS FOLLOWS:

GENERAL BOARD	MODULE BOARD
1. SIGNAL PC BOARD ASS'Y 2. DEF. & POWER PC BOARD ASS'Y 3. CRT SOCKET PC BOARD ASS'Y 4. A/V TERMINAL PC BOARD ASS'Y 5. LINE FILTER PC BOARD ASS'Y 6. DIGITAL SOUND PC BOARD ASS'Y	1. IF MODULE 2. STATION SELECT MODULE 3. PERI MODULE 4. TELETEXT MODULE 5. RGB SWITCH MODULE 6. D.L. APACON MODULE

• OUTLINE OF S. SELECT CIRCUIT OF FREQUENCY SYNTHESIZER

- 1. 4 bit microcomputer for frequency synthesizer tuner
- 2. 4 bit A/D converter is built in
- 3. Adoption of the Pulse Swallow process (with PLL built in) allows the AFT (Auto Fine Tuning) function
- 4. Program memory (ROM) 8 bit x 2,048 steps
- 5. Data memory (RAM) 4 bit x 96 words

Block Diagram

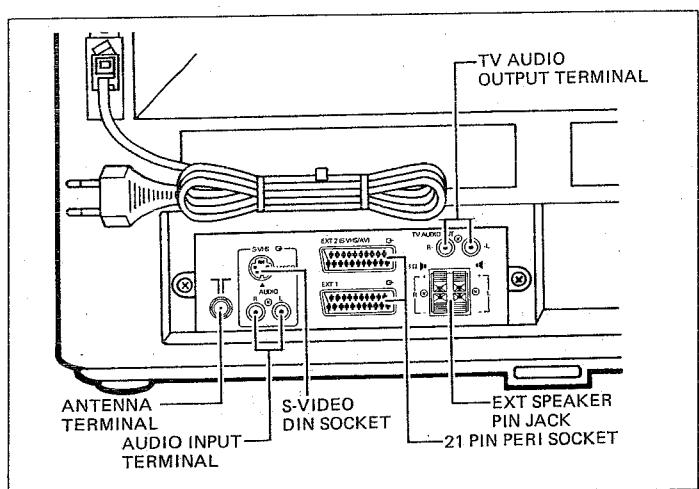
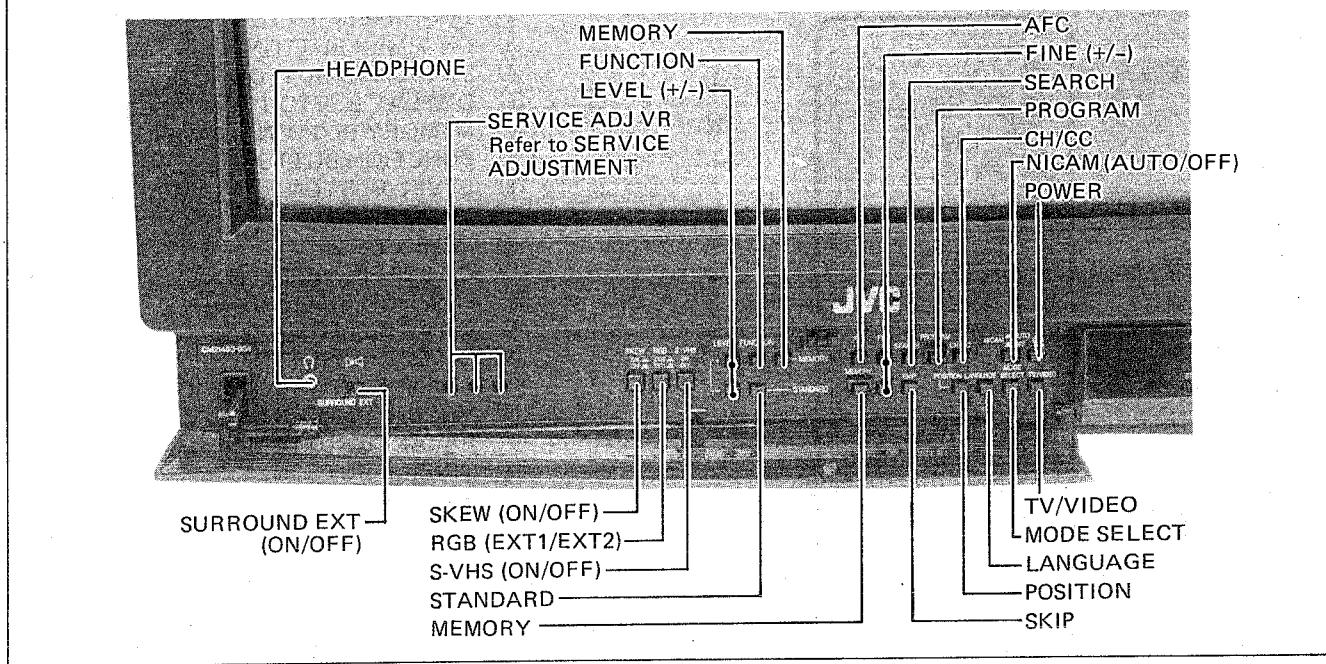
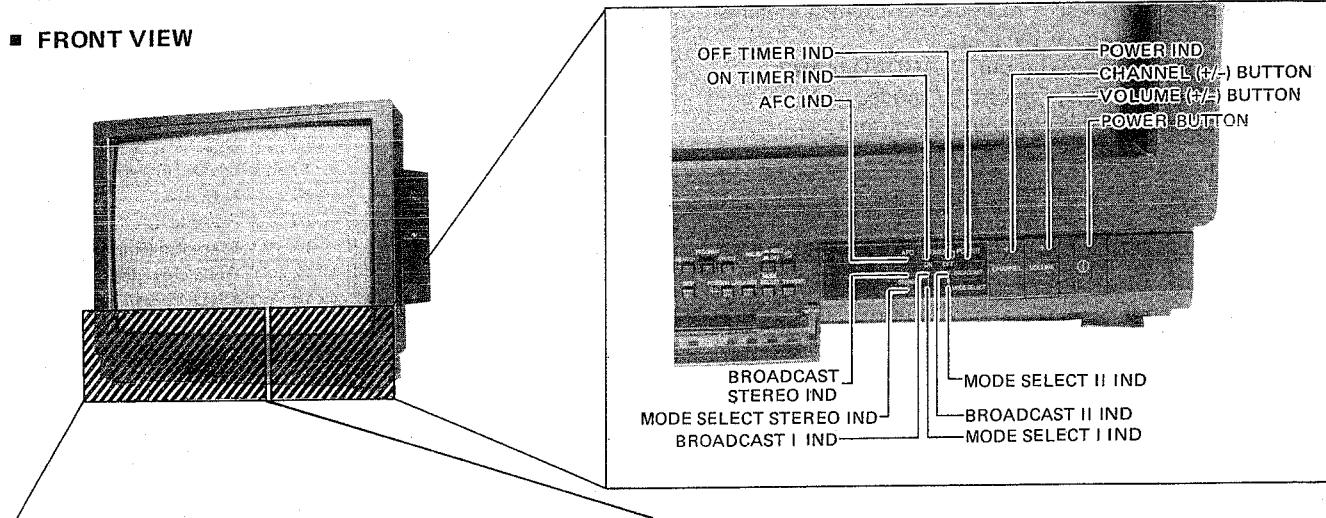


The PLL and state control of this equipment comprise the combination of the band switch-over/microcomputer/S. SELECT module circuits and control the S. SELECT circuit, ON SCREEN, volume control, etc.

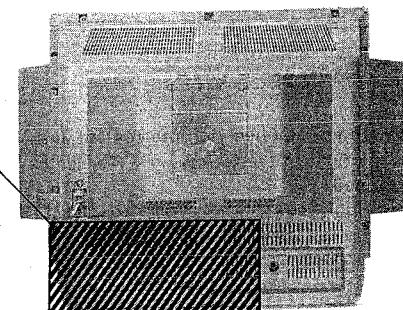
FUNCTIONS

* REGARDING THE OPERATING METHOD, REFER TO THE INST. BOOK

■ FRONT VIEW



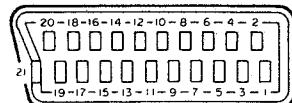
■ BACK VIEW



■ 21-PIN PERITELEVISION (SCART) SOCKET (EURO CONNECTOR)

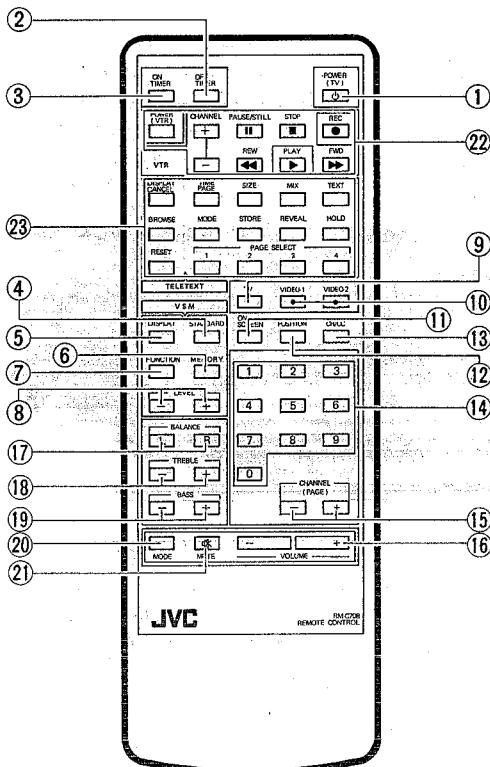
- This connector is used to input the RGB signals, to input and output the video/audio signals, and also to input the control signals. Connect it to equipment which matches the signal arrangement of the pins.
- Select the input signal using the TV/VIDEO button. When RGB signal is input, set to TV mode.
- A TV broadcast signal is continuously output.

• Pin assignment



Pin No.	Signal	Pin No.	Signal
1	Audio output	12	N.C.
2	Audio input	13	GND, for red
3	Audio output	14	N.C.
4	GND, for audio	15	Red input
5	GND, for blue	16	Blanking (Rapid SW)
6	Audio input	17	GND, for video
7	Blue input	18	GND, for blanking
8	Slow SW.	19	Video output
9	GND, for green	20	Video input
10	N.C.	21	GND.
11	Green input		

■ REMOTE CONTROL



① POWER BUTTON
 ② OFF TIMER BUTTON
 ③ ON TIMER BUTTON
 ④ STANDARD BUTTON
 ⑤ DISPLAY BUTTON
 ⑥ MEMORY BUTTON
 ⑦ FUNCTION BUTTON
 ⑧ LEVEL BUTTON
 ⑨ TV BUTTON
 ⑩ VIDEO 1 & 2
 ⑪ ON SCREEN BUTTON
 ⑫ POSITION BUTTON
 ⑬ CH/CC BUTTON
 ⑭ DIRECT CH BUTTON
 ⑮ CHANNEL (PAGE) BUTTON
 ⑯ VOLUME BUTTON
 ⑰ BALANCE BUTTON
 ⑱ TREBLE BUTTON
 ⑲ BASS BUTTON
 ⑳ MODE BUTTON
 ㉑ MUTE BUTTON
 ㉒ VTR CONTROL BUTTON
 ㉓ TELETEXT BUTTON

TEXT, MIX, SIZE, TIME,
 PAGE, DISPLAY CANCEL,
 HOLD, REVEAL, STORE,
 MODE, BROWSE, RESET,
 PAGE SELECT-1, 2, 3, 4

• OPERABLE VTRs

With the supplied Remote control unit, some of the functions of the following VTRs can be remotely controlled:

Before start operation, be sure to turn the power of the VTR on.

For detailed operation, refer to the VTR instruction Book.

Note: Place the VTR so that it is within the operation range of the Remote Control unit.

OPERABLE VTRs (JVC)

HR-D455	HR-D250
HR-D565	HR-D566
HR-D725	HR-D157MS
HR-D158MS	HR-D257MS
HR-D170	HR-D180
HR-D370	HR-D470
HR-D755	HR-S5000

HOW TO REMOVE FOR SERVICE

■ REMOVING THE REAR COVER

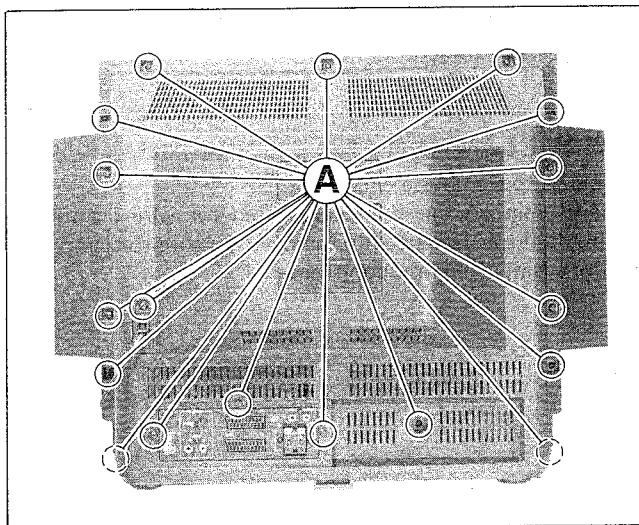


Fig. A

1. Unplug the power supply cord and remove the eighteen screws marked A shown in Fig. A, then remove the rear cover.

■ REMOVING THE SIGNAL & DEF. POWER BOARD

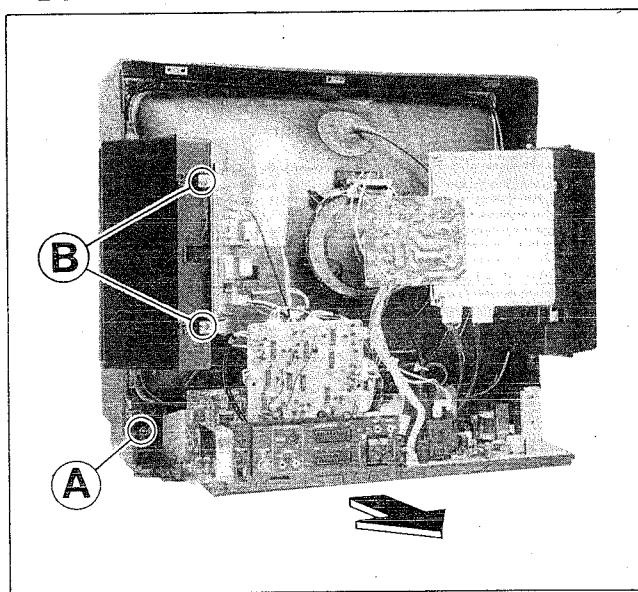


Fig. B

- * After removing the rear cover.
- 1. Loosen the screw marked A shown in Fig. B.
- 2. Then grip both sides of the chassis and draw it out to remove the rear cover. (Fig. B)
- * When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT socket board.

■ REMOVING THE LINE FILTER BOARD

1. It can be removed with two screws B shown in Fig. B.

■ REMOVING THE DIGITAL SOUND BOARD

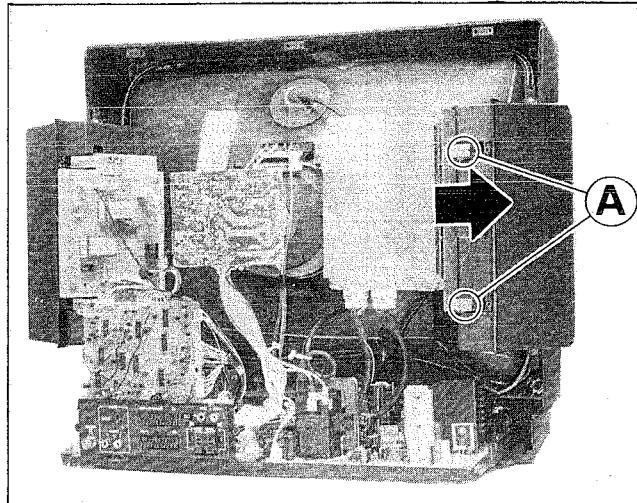


Fig. C

1. Remove the two screws A shown in Fig. C.
2. Then shift the PC Board in the arrow direction to remove it.

■ REMOVING THE AV TERMINAL ASS'Y

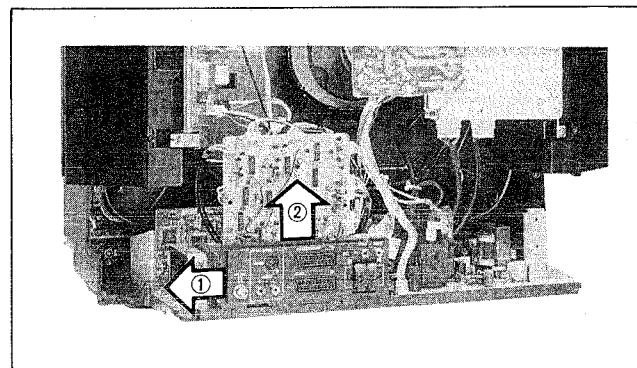


Fig. D

As shown in Fig. D, slide the AV TERMINAL ASS'Y in the allow direction (①) along the rail and stop it at the place where the rail widens out. Then the AV TERMINAL ASS'Y can be removed easily by pulling it up. (in the allow direction (②)).

■ REMOVING THE SPEAKER BOX ASS'Y & COVER

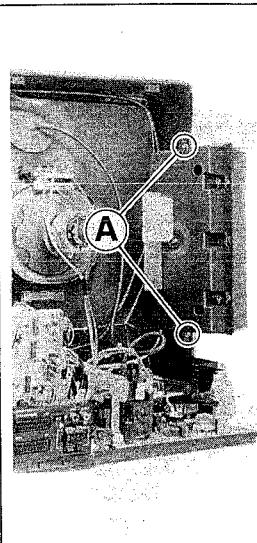


Fig. E

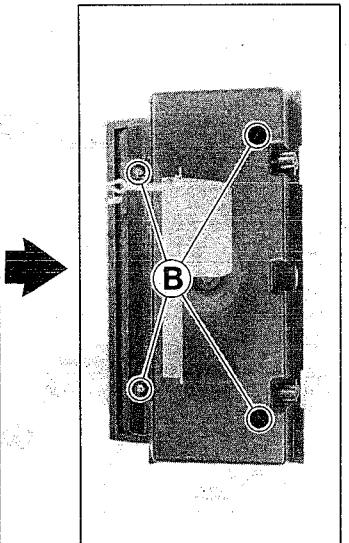


Fig. F

1. Remove the two screws **A** shown in Fig. E.
2. Remove the four screws **B** shown in Fig. F to replace the speaker cover.
3. Remove the speaker cover on the opposite side through a similar procedure.

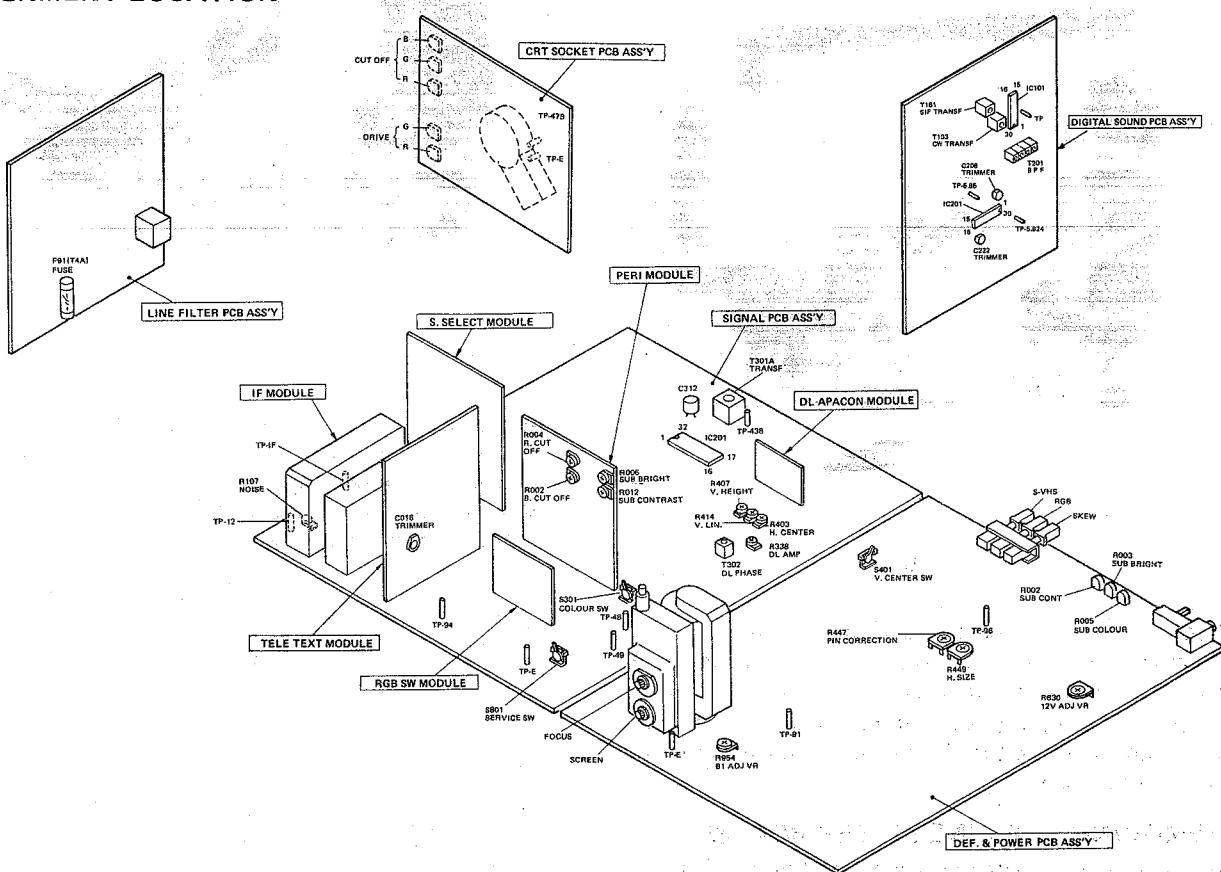
■ WIRE CLAMPING AND TYING BAND

1. Be sure to clamp the wire.
2. Never remove the tying band used for wire clamping. Should it be inadvertently removed, be sure to clamp the wire again, using insulating material.

SERVICE ADJUSTMENTS

- As for the test points and respective volume adjusting positions, refer to the "ALIGNMENT LOCATION" on the schematic diagram and the SERVICE ADJUSTMENT in the given herein.

ALIGNMENT LOCATION



DEF & POWER PC BOARD CIRCUIT

■ POWER SUPPLY

1. SUB power voltage (12V DC)

Adjust the 12V ADJ VR to obtain 12V DC between TP-96 (+ side of C618) and TP-E(\neq).

2. B1 voltage (148V DC)

Adjust the B1 ADJ VR to obtain 148V DC between TP-91 and TP-E(\neq).

■ SUB COLOUR

1. Receive a PAL colour bar signal.

2. Push the standard button and set the Video control to the standard position.

3. Adjust the SUB COLOUR VR to obtain natural colour density.

■ SUB BRIGHT & SUB CONTRAST

1. Push the standard button and set the Video control to the standard position.

2. Adjust the SUB BRIGHT VR and SUB CONTRAST VR until an ideal picture is obtained.

■ V. CENTER

The screen can be scrolled upward or downward by changing over the V. CENTER switch.

■ H. SIZE & PIN CORRECTION

1. Adjust the SIDE PIN CORRECTION VR to obtain the least deformation of the screen.

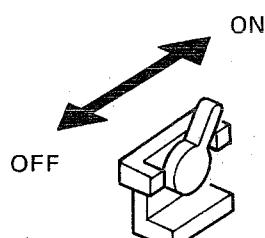
2. Adjust the H. SIZE VR to move the screen horizontally and obtain the optimum screen with the whole image.

■ FOCUS

Adjust the FOCUS VR for best overall definition and picture detail at normal brightness and contrast.

SIGNAL PC BOARD CIRCUIT

■ COLOUR SW. POSITION



ON : COLOUR Position
OFF : MONO Position

■ NOISE (RF A.G.C. Delay)

This control is set at the factory and rarely requires adjustment. If a snowy picture appears on a medium- to weak signal station, adjust the NOISE VR.

1. Turn NOISE VR fully counterclockwise (or clockwise) to obtain maximum noise in picture.
2. Slowly turn NOISE VR clockwise (or counterclockwise) until snow or noise in picture disappears.

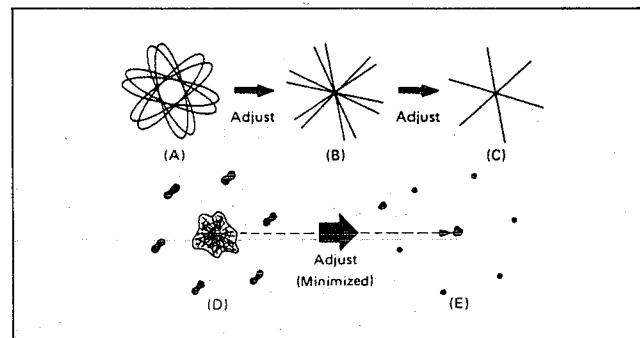
■ NOTE

Check operation on strong channels. If overloading occurs (bending, poor colour, loss of colour sync. etc.) make compromise adjustment.

■ CHROMA CIRCUIT

■ PAL

1. Receive a PAL colour bar signal and set the oscilloscope at the X-Y mode and then connect CH-1 (X-axis) to TP-49 and CH-2 (Y-axis) to TP-48 respectively.
2. Short the C312 capacitor with a jumper wire and connect pin (24) and pin (26) of IC201 with 8.2 k Ω resistor. See Lissajous' Fig. (A).
3. Adjust the SUB COLOUR VR so that the figure is not saturated.
4. Adjust the DL AMP VR (R338) so that the figure is altered to (B) from (A).
5. Adjust the DL P TRANSF (T302) so that the figure is altered to (C) from (B).
6. Repeat adjustments 4. and 5. more than twice.
7. Remove the shorted jumper wire and 8.2 k Ω resistor from pin (24) and pin (26) of IC201.
8. Then adjust the T301A TRANSF (T301A: Burst cleaning) so that the figure is minimized to (E) from (D).



■ VERTICAL HEIGHT & LINEARITY

1. Set colour bar generator to crosshatch or a pattern with which symmetry can be checked.
2. Reduce the vertical size with the VERTICAL HEIGHT VR.
3. Adjust the vertical symmetry with the VERTICAL LINEARITY VR.
4. Readjust the VERTICAL HEIGHT so that the picture extends to normal size.

■ H. CENTER

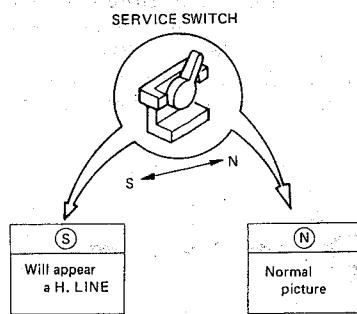
1. The screen can be scrolled leftward or rightward by adjusting the H. CENTER VR.

WHITE BALANCE ADJUSTMENT (Black and White Tracking)

1. Display a monochrome pattern.
2. Set the RED and GREEN DRIVE VRs for their mechanical center.
3. Turn the RED, GREEN and BLUE CUT-OFF VRs and the SCREEN VR fully counterclockwise.
4. Display a horizontal line. (Select the CUT-OFF SERVICE SWITCH from N to S and a HORIZONTAL LINE will appear.)
5. Turn SCREEN VR slowly clockwise until a very faint horizontal line appears.
6. Turn the CUT-OFF VR of the color which has appeared first, clockwise by about 10° and then adjust the SCREEN VR again so that the color may shine faintly.
7. Turn the other color CUT-OFF VRs slowly clockwise until a reasonable white line appears.
8. Return the monochrome pattern. (When returning a monochrome pattern select the CUT-OFF SERVICE SWITCH from S to N and a monochrome pattern will appear.)
9. Adjust the RED and GREEN DRIVE VRs for best white highlights.

• HORIZONTAL LINE

HOW TO USE THE CUT-OFF SERVICE SWITCH



PERI MODULE CIRCUIT

■ PERI SUB BRIGHT & SUB CONTRAST

While connecting PERI input in the A/V TERMINAL Board.

1. Push the standard button and set the Video control to the standard position.
2. Then align the PERI SUB BRIGHT VR & SUB CONTRAST VR until an ideal Picture is obtained.

■ PERI B. CUT OFF & R. CUT OFF

While connecting PERI input, adjust the BLUE CUT OFF VR AND RED CUT OFF VR in the PERI circuit until a best White picture is obtained.

TELETEXT MODULE CIRCUIT

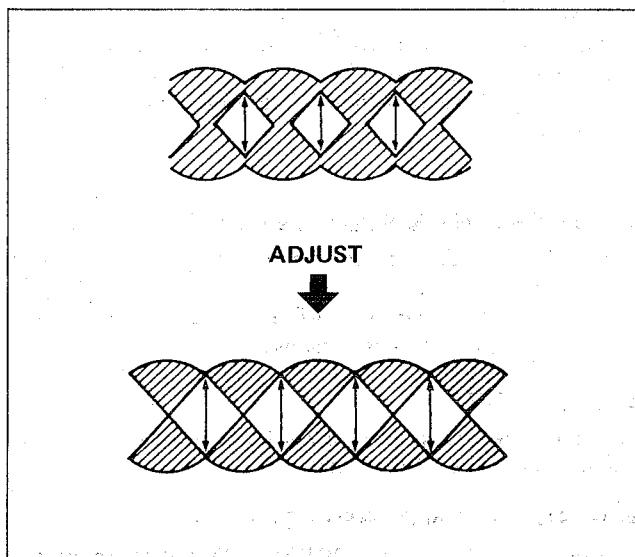
■ ON SCREEN (TELETEXT)

1. Set to the mix mode (by remote control).
2. Display characters on the screen.
3. Adjust the position of characters so that they will stay around the center of the screen and will not flow (C016).

DIGITAL SOUND PC BOARD CIRCUIT

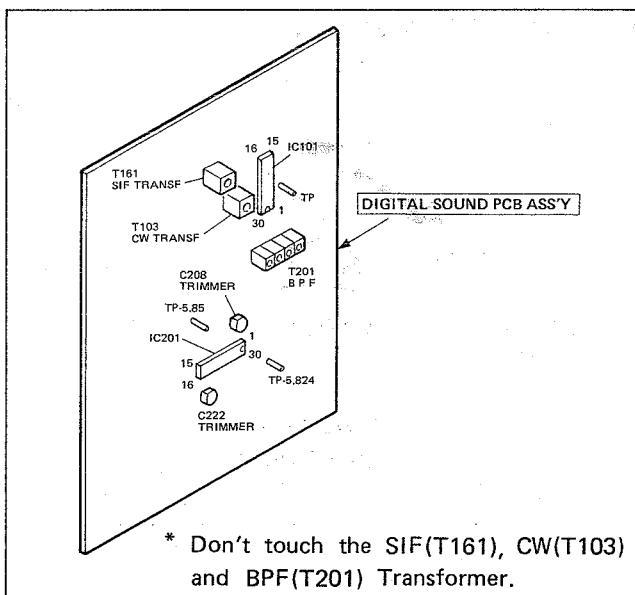
■ ADJUSTMENT OF EYE PATTERN

1. Receive a digital sound signal.
2. Connect the oscilloscope to pin 20 of IC201.
3. By observing the waveform, adjust the trimmer capacitor (C208) so that the EYE PATTERN is open to its maximum.
4. As for pin 19 of IC201, confirm the waveform by adjusting the TRIMMER capacitor (C208), if necessary.



■ ADJUSTMENT OF 5.824MHz

1. Receive a digital sound signal.
2. Connect pin 12 of IC201 to pin 21 using a jumper wire.
3. Then connect pin 4 of IC201 to pin 5 using a capacitor (0.001μF).
4. Connect the frequency counter to TP-5.824 and adjust the TRIMMER capacitor (C222) so that the frequency becomes 5.824MHz ±20Hz.



REPLACEMENT PARTS LIST

* The module PC boards marked with Δ are supplied as assemblies.

■ MAIN REPLACEMENT PARTS LIST

1/3

SYMBOL NO.	Δ	PART NO.	PART NAME	REMARKS
CRT & TUNER				
TU1001	Δ	CE41363-002 BK7362EP-A04 Δ A59EAK01X01	DEG COIL V/U/CATV TUNER PICTURE TUBE	L01 V01 Within Def Yoke PC Magnet, Wedge Ass'y
VARIABLE RESISTOR				
R1107		QVPA601-223A	V R (NOISE)	22 k Ω B
R1338		QVPA601-102A	V R (DL AMP)	1 k Ω B
R1403		QVPA801-203M	V R (H. CENTER)	20 k Ω B
R1407		QVPA801-201M	TRIM R (V. HEIGHT)	200 Ω B
R1414		QVPA801-503M	TRIM R (V. LIN)	50 k Ω B
R2002		QVPA603-103A	V R (SUB CONTRAST)	10 k Ω B
R2003		QVPA603-223A	V R (SUB BRIGHT)	22 k Ω B
R2005		QVPA603-223A	V R (SUB COLOR)	22 k Ω B
R2447		QVPA804-203M	V R (SIDE PIN CORRECTION)	20 k Ω B
R2449		QVPA804-502M	V R (H. SIZE)	5 k Ω B
R2630		QVPA803-201M	V R (12V ADJ.)	200 Ω B
R2954		QVPE804-102H	V R (B1 ADJ.)	1 k Ω B
R3113		QVPA803-502M	V R (R CUT OFF)	5 k Ω B
R3114		QVPA803-502M	V R (G CUT OFF)	5 k Ω B
R3115		QVPA803-502M	V R (B CUT OFF)	5 k Ω B
R3119		QVPA803-201M	V R (R DRIVE)	200 Ω B
R3120		QVPA803-201M	V R (G DRIVE)	200 Ω B
TRANSFORMER				
T2501	Δ	CE40895-00A CE41479-00C	H DRIVE TRANSF. H. V. TRANSF.	T2551
T2601	Δ	CE41476-00A	SW TRANSF	
T2901	Δ	CE41491-00C	SW TRANSF	
T2902	Δ	CE40361-00J	DRIVE TRANSF.	
DIODE				
D1001		MA4051 (L) -Y	ZENER DIODE	
D1402		MA4120 (M) -Y	ZENER DIODE	
D1504		MA4075 (H) -Y	ZENER DIODE	
D1506		MA4030 (M) -Y	ZENER DIODE	
D1602		RD33E (B1)	ZENER DIODE	
D1603		RD33E (B1)	ZENER DIODE	
D1718		MA4051 (L) -Y	ZENER DIODE	
D1751		GL-9PR26	L. E. D.	Main Power
D1752		GL-9PG26	L. E. D.	On Timer
D1753		GL8HS26T	L. E. D.	Off Timer
D1754		GL-9PG26	L. E. D.	
D1756		GL-9PR26	L. E. D.	AFC
D1757		GL-9PG26	L. E. D.	Stereo
D1758		GL8HS26T	L. E. D.	Π (Bilingual)
D1759		GL-9PR26	L. E. D.	I (Mono)
D1760		GL8HS26T	L. E. D.	Stereo
D1761		GL-9PG26	L. E. D.	I
D1781		PD49PI	PHOTO DIODE	Π
D1810		RD5.1ES (B2)	ZENER DIODE	
D2401		MA4300-Y	ZENER DIODE	
D2531		MA4056 (M) -Y	ZENER DIODE	
D2532		MA4062 (H) -Y	ZENER DIODE	
D2553		U19E-FK	S.I. DIODE	
D2554		U19E-FK	S.I. DIODE	
D2555		DFA1A4-4	S.I. DIODE	
D2572	Δ	MA4068 (N) V1-Y	ZENER DIODE	
D2573		MA4091 (M) -Y	ZENER DIODE	
D2575		MA4062 (M) -Y	ZENER DIODE	
D2576		RD15E (B)	ZENER DIODE	
D2607		RD9.1E (B)	ZENER DIODE	

SYMBOL NO.	△	PART NO.	PART. NAME	REMARKS
DIODE D2609 D2614 D2901 D2902 D2958		RD30E (B2) RD36E (B3) D3SBA60 SF5J42 MA4150 (M) -Y	ZENER DIODE ZENER DIODE DIODE BRIDGE THYRISTOR ZENER DIODE	
D2959 D6901		RD5.6E (B2) RD11E (B2) -Y	ZENER DIODE ZENER DIODE	
TRANSISTOR Q3104 Q3105 Q3106		2SC2068-LB 2SC2068-LB 2SC2068-LB	S.I. TRANSISTOR S.I. TRANSISTOR S.I. TRANSISTOR	R. Out G. Out B. Out
IC IC1001 IC1201 IC1601 IC1602 IC1701		UPC1486C M52016SP TA7764P TA8200AH AN78L05	I. C. (M) I. C. (M) I. C. I. C. (M) I. C. (M)	
IC1702 IC1781 IC2401 IC2551 IC2552		MN15221JMN UPC1373HA (MS) UPC1498H UPC7812HF UPC7805HF	I. C. I. C. (M) I. C. I. C. I. C.	
IC2601 IC2951 IC7001 IC7002 IC7003		STR10006-A AN5900 TC4066BP TC4066BP TC4066BP	I. C. (H) I. C. (M) I. C. (M) I. C. (M) I. C. (M)	
IC7101 IC7102 IC7103 IC7104 IC7201		TC4066BP TC4066BP TC4066BP TC4066BP TC4066BP	I. C. (M) I. C. (M) I. C. (M) I. C. (M) I. C. (M)	
IC7202		TC4066BP	I. C. (M)	
OTHERS		SBY-F002A-MU4 SBY-M005A (U) SBY-P006A (U) SBY-T002A (U) SBY-R002A (U)	I-F MODULE S. SELECT MODULE PERI MODULE TELETEXT MODULE RGB SWITCH MODULE	◎ ◎ ◎ ◎ ◎
	△	SBY-D001A (U) CM33567-A0B QMP4090-200K CM41678-B01 CM11406-B0D-E CM32865-B01	D.L APACON MODULE KNOB BASE ASSY POWER CORD PUSH KNOB CABINET ASSY CONTROL KNOB	◎ Include Power Knob Ch Knob, Vol Knob (x5)
	△	CM33485-A01 CM11468-D0A EAS-10P432C EAS-3FP10R CM33501-A0C-V0	CONTROL KNOB SP BOX ASSY CONE SPEAKER CONE SPEAKER AV TERMINAL	Include Antenna Jack
CP2601 CP2901 F9091	△	CM11468-C0B CM42758-003 ICP-N38-Y ICP-N38-Y QMF51E2-4ROS	SP BOX ASSY KNOB IC PROTECTER IC PROTECTER FUSE	(x2) 4.0A Peri 1
J2001 J7001		AX49607-004 CE40529-006	HEADPHONE JACK SCART CONNECTOR	

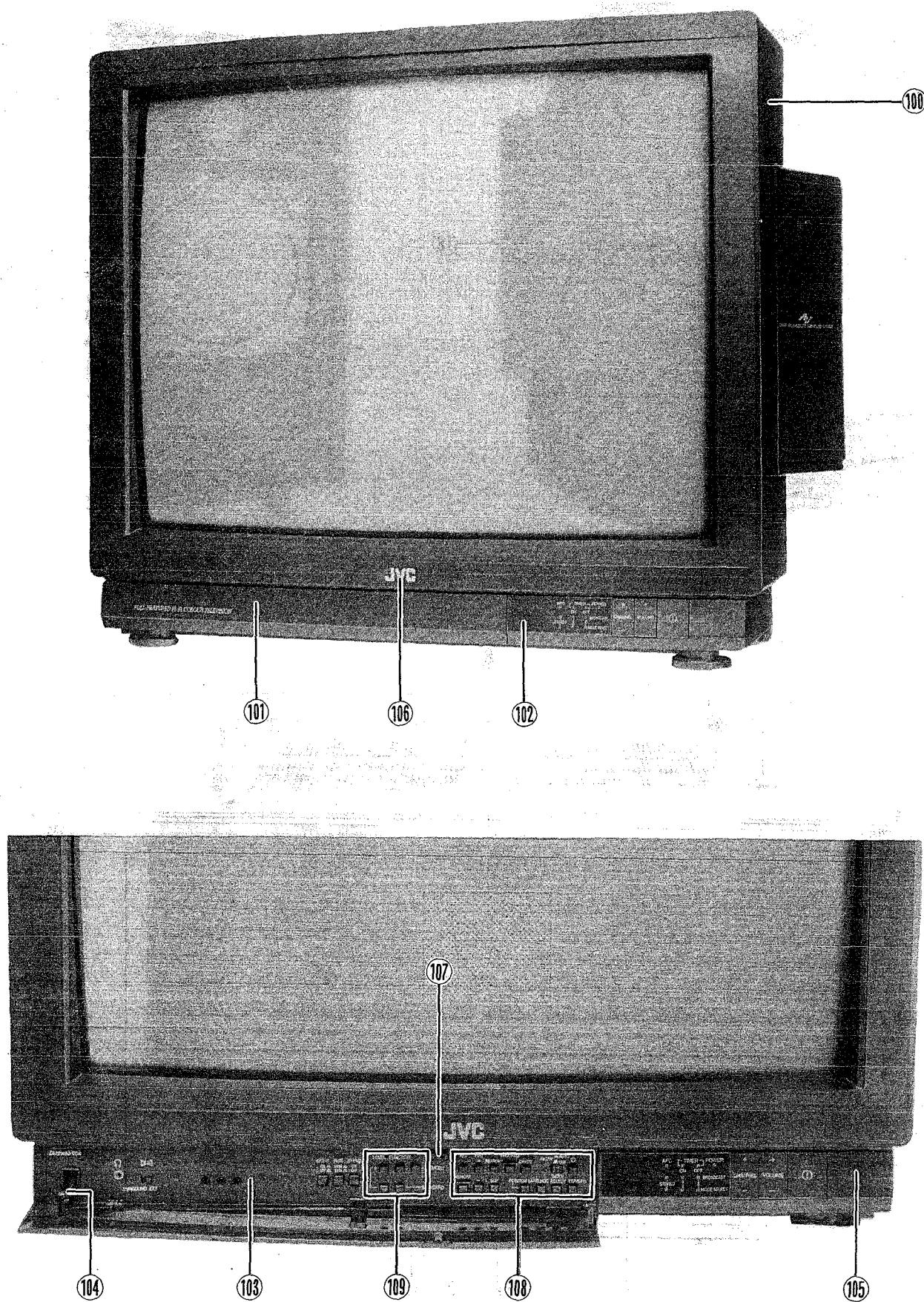
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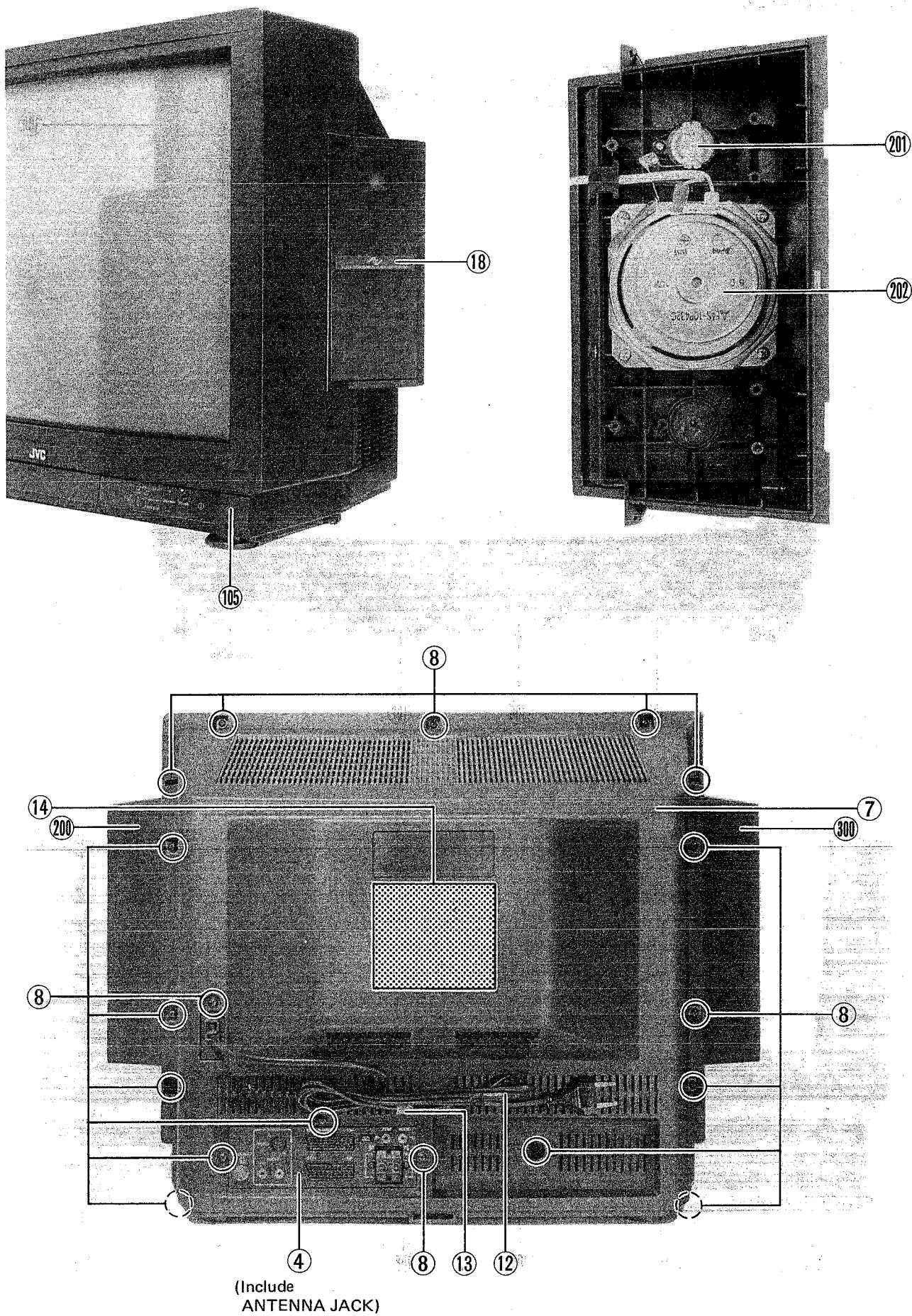
SYMBOL NO.	△	PART NO.	PART NAME	REMARKS
OTHERS				
J 7002		CE40529-006	SCART CONNECTOR	Peri 2
J 7003		QMD4A04-001	DIN CONNECTOR	S In
J 7004		CEMN021-001	PIN JACK	Audio In
J 7005		CEMN021-001	PIN JACK	TV Audio Out
J 7006		CEMT005-001	SP TERMINAL	SP Out
R 2571	△	QRH017J-4R7M	F R	4. 7 Ω 1W J
R 2611	△	QRZ0054-8R2M	F R	8. 2 Ω 1/4W J
R 2623	△	QRZ0054-2R2M	F R	2. 2 Ω 1/4W J
R 2632	△	QRZ0054-2R2M	F R	2. 2 Ω 1/4W J
R 2633	△	QRZ0054-2R2M	F R	2. 2 Ω 1/4W J
R 2959	△	QRZ0055-2R2M	F R	2. 2 Ω 1/2W J
R 6500	△	QRZ0054-470M	F R	47 Ω 1/4W J
S 1301		QSL4A13-C02	LEVER SWITCH	Color
S 1751		QSP2C22-C01	PUSH SWITCH	Normal→Auto
S 1753		QSP1A11-C10	PUSH SWITCH	TV/Video
S 1754		QSP1A11-C10	PUSH SWITCH	I/II
S 1755		QSP1A11-C10	PUSH SWITCH	Power
S 1756		QSP1A11-C10	PUSH SWITCH	Program
S 1757		QSP1A11-C10	PUSH SWITCH	Memory
S 1758		QSP1A11-C10	PUSH SWITCH	Fine△
S 1759		QSP1A11-C10	PUSH SWITCH	Fine▽
S 1760		QSP1A11-C10	PUSH SWITCH	CH/CATV
S 1761		QSP1A11-C10	PUSH SWITCH	Position
S 1762		QSP1A11-C10	PUSH SWITCH	Search
S 1763		QSP1A11-C10	PUSH SWITCH	AFC
S 1765		QSP1A11-C10	PUSH SWITCH	Language
S 1767		QSP1A11-C10	PUSH SWITCH	Skip
S 1768		QSP1A11-C10	PUSH SWITCH	CH△
S 1769		QSP1A11-C10	PUSH SWITCH	CH▽
S 1770		QSP1A11-C10	PUSH SWITCH	Vol△
S 1771		QSP1A11-C10	PUSH SWITCH	Vol▽
S 1801		QSL4A13-C02	LEVER SWITCH	Service
S 1901	△	QSP4D21-C06	PUSH SWITCH	Power
S 2001		QST3321-C01	PUSH SWITCH	Skew, RGB, S-VHS
S 2003		QSS4C22-C04	SLIDE SWITCH	Speaker
S 2006		QSP1A11-C10	PUSH SWITCH	Standard
S 2007		QSP1A11-C10	PUSH SWITCH	Level△
S 2008		QSP1A11-C10	PUSH SWITCH	Level▽
S 2009		QSP1A11-C10	PUSH SWITCH	Function
S 2010		QSP1A11-C10	PUSH SWITCH	Memory
S 2401		QSL4A13-C02	LEVER SWITCH	V. Center
TH2441		ERT-D2ZHL503S	THERMISTOR	
TH9091	△	A76038-T	POSISTOR	or A76038
X1301		CE41115-001	CRYSTAL	
X1501		CSB500F9	CERAMIC RESO	
X1701		CE40842-001	CRYSTAL	

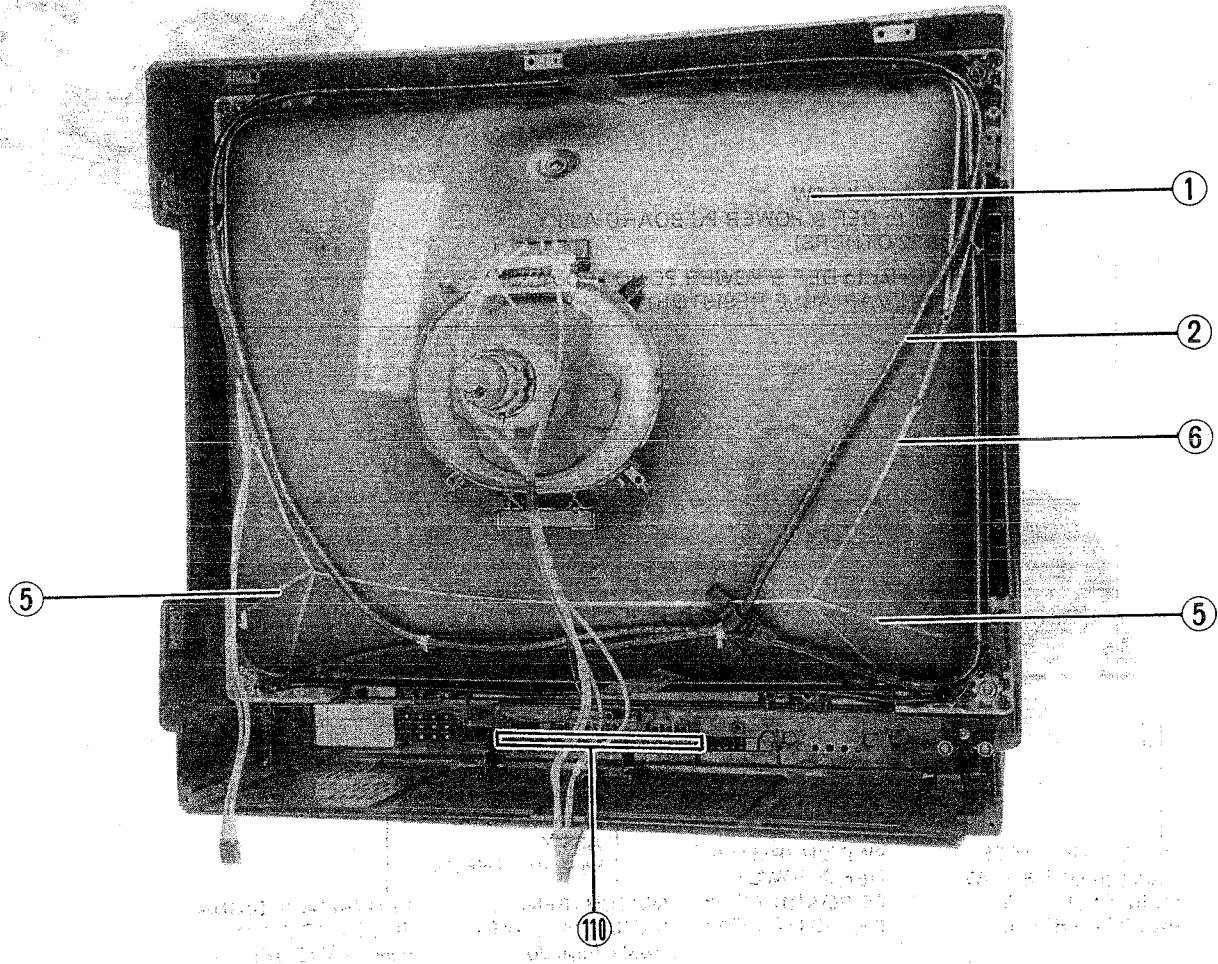
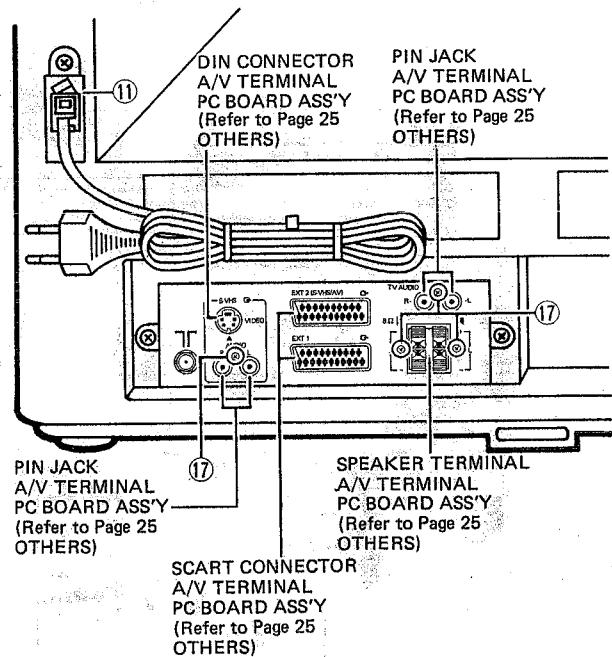
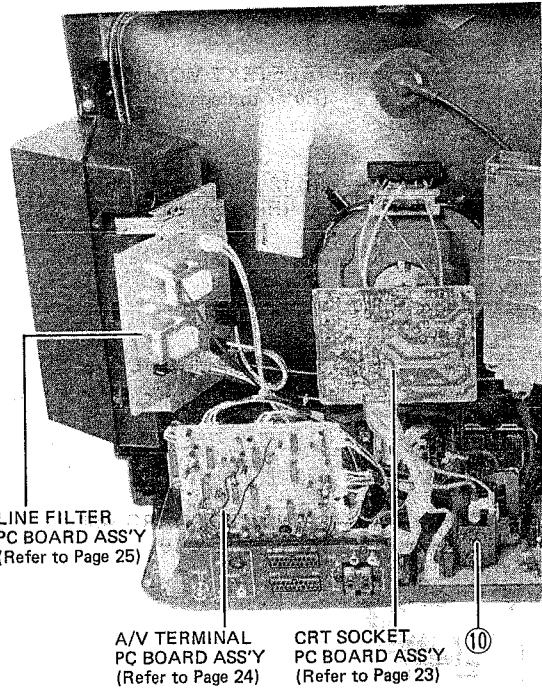
■ CHASSIS & CABINET PARTS LIST

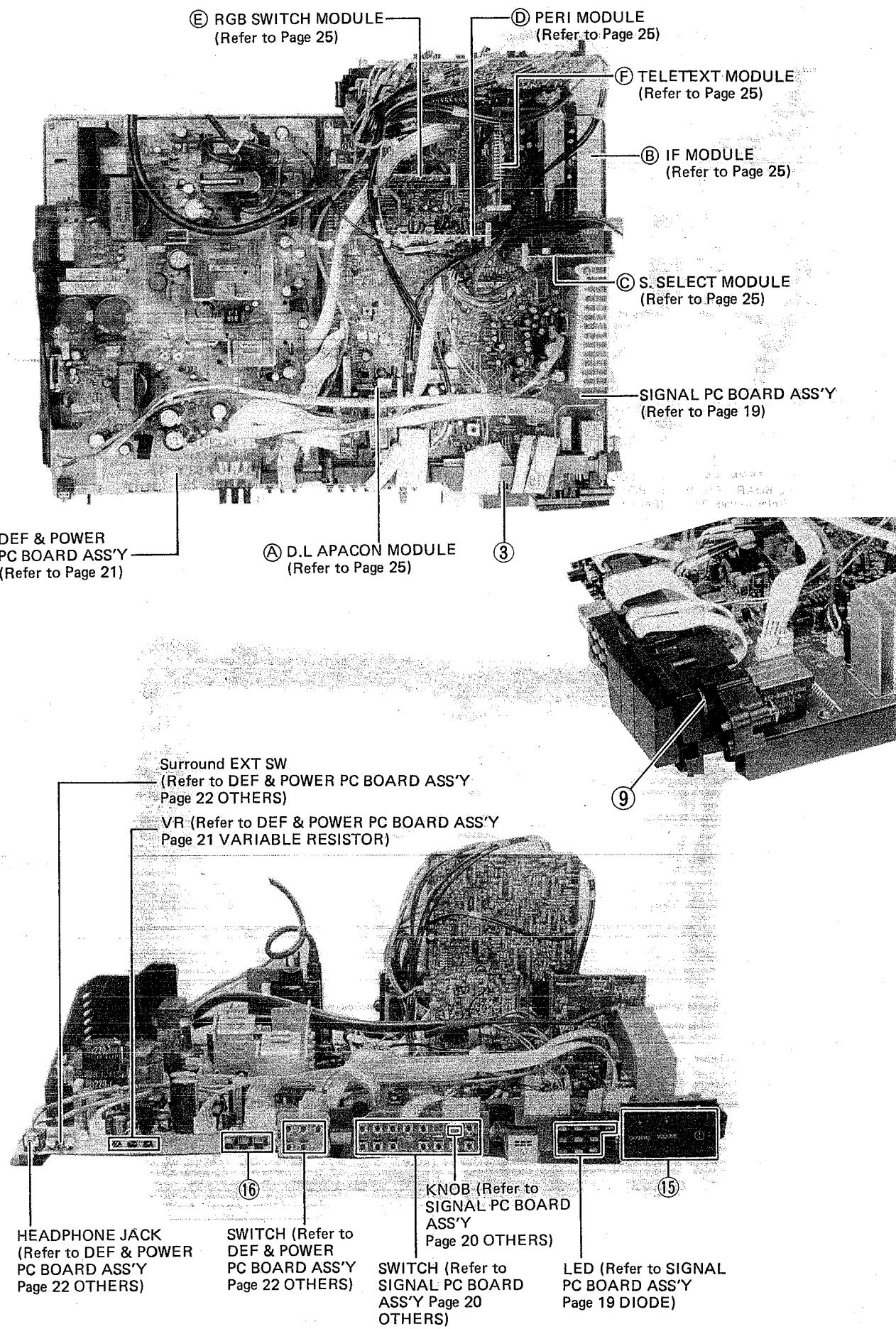
VIEW NO.	PART NO.	PART NAME	REMARKS
1	A59EAK01X01	PICTURE TUBE	
2	CE41363-002	DEG COIL	
3	CM21450-C01-E	CONTROL BASE	
4	CM33501-A0C-V0	AV TERMINAL	
5	CH41987-00C	BRAIDED SUB ASSY	
6	CH30342-00G	BRAIDED ASSY	
7	CM11409-A01-E	REAR COVER	
8	GBSA4016M	TAP SCREW	
9	CM41677-A01	KNOB CAP	
10	CE41479-00C	H. V. TRANSF.	T2551
11	CM21165-001-V0	POWER CORD CLAMP	
12	QMP4090-200K	POWER CORD	
13	N47971	CORD CLAMP	
14	CM21117-006 (R)	ROLL R LABEL	
15	CM33567-A0B	KNOB BASE ASSY	Include Power Knob, Ch Knob, Vol Knob
16	CM41678-B01	PUSH KNOB	(x3)
17	SBSB3012M	TAP SCREW	(x4) Pin Jack, SP Terminal
18	CM32861-001	PLATE	
100	CM11406-B0D-E	CABINET ASSY	Include No. 101-110
101	CM11472-B02	DOOR	
102	CM32857-B04	INDICATOR WINDOW	
103	CM21453-004	CONTROL SHEET	
104	CM32812-A0A	DUMPER ASSY	
105	CM32858-A01-E	SIDE PANEL	
106	CM43094-002	JVC MARK	
107	CM45436-00A	DOOR LATCH	
108	CM32865-B01	CONTROL KNOB	
109	CM33485-A01	CONTROL KNOB	
110	CM44258-00A	PLASTIC RIVET	(x6)
200	CM11468-D0A	SP BOX ASSY	Include No. 201-202
201	EAS-3FP10R	CONE SPEAKER	
202	EAS-10P432C	CONE SPEAKER	
300	CM11468-C0B	SP BOX ASSY	Include No. 201-202

■ EXPLODED VIEW









PC BOARD PARTS LIST
SIGNAL PC BOARD ASS'Y (SBY-1304A(U))

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SYMBOL NO.	PART NO.	PART NAME	REMARKS
R1107	QVPA601-223A	V R (NOISE)	2.2kΩ B
R1338	QVPA601-102A	V R (DL AMP)	1kΩ B
R1403	QVPA801-203M	V R (H. CENTER)	20kΩ B
R1407	QVPA801-201M	TRIM R (V. HEIGHT)	200Ω B
R1414	QVPA801-503M	TRIM R (V. LIN)	50kΩ B
RESISTOR			
R1004	QRG019J-121S	OM R	1.2Ω Q
R1865	QRG013J-271	OM R	27Ω Q
CAPACITOR			
C1001	QEM611EK-106M2	E CAP.	1.0μF
C1003	QEM611EK-106M2	E CAP.	1.0μF
C1006	QEM611EK-106M2	E CAP.	1.0μF
C1105	QEB611HM-104M2	E CAP.	0.1μF
C1205	QEN611HM-474Z	BP E CAP.	0.47μF
C1214	QEN611HM-335Z	BP E CAP.	3.3μF
C1309	QFV71HJ-104M2	BP E CAP.	0.1μF
C1310	QEN611HM-105Z	BP E CAP.	1.0μF
C1312	QEN611HM-105Z	BP E CAP.	1.0μF
C1401	QFV71HJ-224M2	TF CAP.	0.22μF
C1402	QEE61CK-225BZ	TAN. CAP.	2.2μF
C1404	QEB611HM-224M2	E CAP.	0.22μF
C1405	QEM511HK-415M	E CAP.	4.7μF
C1412	QEM511CM-417M	E CAP.	4.7μF
C1414	QFV71HJ-214M2	TF CAP.	0.21μF
C1416	QEM511HK-417M	E CAP.	4.7μF
C1506	QFV71HJ-101M2	TF CAP.	0.1μF
C1605	QFV71HJ-333M2	TF CAP.	0.33μF
C1613	QFV71HJ-334M2	TF CAP.	0.33μF
C1628	QFV71HJ-121M2	TF CAP.	0.12μF
C1629	QFV71HJ-124M2	TF CAP.	0.12μF
C1716	QETC1CM-106Z	E CAP.	0.10μF
C1781	QFV71HJ-333M2	TF CAP.	3.3μF
C1782	QEKC1CM-106CMZ	E CAP.	0.10μF
C1783	QEKC1VM-473GMZ	E CAP.	4.7μF
C1784	QEKC1CM-106GMZ	E CAP.	10μF
C1785	QEKC1CM-336M2	E CAP.	3.3μF
C1820	QEN611HM-105Z	BP E CAP.	1μF
C1821	QEN611HM-105Z	BP E CAP.	1μF
C1822	QEN611HM-105Z	BP E CAP.	1μF
TRANSFORMER			
T1301A	CE40359	IDENT TRANSF	
	CE40396-A01	DL P TRANSF	
T1781	CE40304-001	BP TRANSF	
COIL			
L1001	CELP006-5R6Z	PEAKING COIL	5.6μH
L1002	CELP006-5R6Z	PEAKING COIL	5.6μH
L1003	CELP006-5R6Z	PEAKING COIL	5.6μH
L1004	CELP006-120Z	PEAKING COIL	1.2μH
L1101	CELP006-8R2Z	PEAKING COIL	8.2μH
L1202	CELP006-390Z	PEAKING COIL	3.9μH
L1203	CE40041-390	PEAKING COIL	3.9μH
L1301	CELP006-120Z	PEAKING COIL	1.2μH
L1303	CELP006-8R2Z	PEAKING COIL	8.2μH
DIODE			
D1001	MA4051 (L) -Y	ZENER DIODE	S.I. DIODE
D1205	ISS133-Y	S.I. DIODE	S.I. DIODE
D1306	ISS133-Y	S.I. DIODE	S.I. DIODE
D1307	ISS133-Y	S.I. DIODE	S.I. DIODE

SYMBOL NO.	PART NO.	PART NAME	REMARKS
2/4	SYMBOL NO.	PART NO.	REMARKS
	DIODE	ISS133-Y	S.I. DIODE
	D1308	ISS133-Y	S.I. DIODE
	D1309	ISS133-Y	S.I. DIODE
	D1310	ISS133-Y	S.I. DIODE
	D1402	MA4120 (M) -Y	ZENER DIODE
	D1502	ISS133-Y	S.I. DIODE
	D1503	ISS133-Y	S.I. DIODE
	D1504	MA4075 (H) -Y	S.I. ZENER DIODE
	D1505	MA4030 (M) -Y	S.I. DIODE
	D1506	MA4030 (M) -Y	ZENER DIODE
	D1507	ISS133-Y	S.I. DIODE
	D1508	ISS133-Y	S.I. DIODE
	D1509	ISS133-Y	S.I. DIODE
	D1601	ISS133-Y	S.I. DIODE
	D1602	RD33E (B1)	ZENER DIODE
	D1603	RD33E (B1)	ZENER DIODE
	D1609	ISS133	S.I. DIODE
	D1701	ISS133-Y	S.I. DIODE
	D1702	ISS133-Y	S.I. DIODE
	D1704	ISS133-Y	S.I. DIODE
	D1705	ISS133-Y	S.I. DIODE
	D1706	ISS133-Y	S.I. DIODE
	D1707	ISS133-Y	S.I. DIODE
	D1708	ISS133-Y	S.I. DIODE
	D1709	ISS133-Y	S.I. DIODE
	D1710	ISS133-Y	S.I. DIODE
	D1718	MA4051 (L) -Y	ZENER DIODE
	D1719	ISS133-Y	S.I. DIODE
	D1751	GL-9PR26	L.E. D.
	D1752	GL-9PG26	L.E. D.
	D1758	GL-9PG26	L.E. D.
	D1759	GL8HS26T	L.E. D.
	D1760	GL8HS26T	L.E. D.
	D1761	GL-9PG26	L.E. D.
	D1762	GL-9PG26	L.E. D.
	D1781	PD19P1	PHOTO DIODE
	D1801	W06A-4	S.I. DIODE
	D1804	ISS133-Y	S.I. DIODE
	D1806	ISS133-Y	S.I. DIODE
	D1807	ISS133-Y	S.I. DIODE
	D1808	RD51ES (B2)	ZENER DIODE
	D1810	ISS133	S.I. DIODE
	D1811	ISS133	S.I. DIODE
	TRANSISTOR		
	Q1201	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1203	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1206	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1303	2SA015 (Y, GR) Y	S.I. TRANSISTOR
	Q1305	2SC1815 (BL) -Y	S.I. TRANSISTOR
	Q1306	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1307	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1308	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1309	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1310	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1311	2SA115 (Y, GR) Y	S.I. TRANSISTOR
	Q1503	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1504	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	Q1505	2SK301 (P) -Y	FET
	Q1506	2SC1815 (Y, GR) Y	S.I. TRANSISTOR

SYMBOL NO.	PART NO.	PART NAME	REMARKS
TRANSISTOR Q1507	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
Q1601	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1602	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1701	2SSC1740S (Q, R) Y	SI. TRANSISTOR	
Q1706	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
Q1801	2SA673 (C) -Y	TRANSISTOR	
Q1802	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1803	2SC1815 (Y) -Y	SI. TRANSISTOR	
Q1804	2SC1815 (Y) -Y	SI. TRANSISTOR	
Q1805	2SC1815 (Y) -Y	SI. TRANSISTOR	
Q1807	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1808	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1809	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1810	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1811	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
Q1812	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
Q1813	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
Q1814	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1815	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
Q1816	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
IC	UPC1486C	I. C. (M)	
IC1001	M52016SP	I. C. (M)	
IC1201	TA7764P	I. C.	
IC1601	TA8200AH	I. C. (M)	
IC1701	AN78L05	I. C. (M)	
IC1702	MN15221JMN	I. C.	
IC1781	UPC1373HA (MS)	I. C. (M)	
OTHERS	SBY-F002A-MU4	I.F. MODULE	
	SBY-M005A (U)	S. SELECT MODULE	◎
	SBY-P006A (U)	PERI. MODULE	◎
	SBY-T002A (U)	TELETEXT MODULE	◎
	SBY-R002A (U)	RGB SWITCH MODULE	◎
	SBY-D001A (U)	D. L. APACON MODUL	◎
DL1201	CM42758-003	KNOB	
DL1301	CE41407-001	DELAY LINE	
S1301	CE41449-001	1H DELAY LINE	
	QSL4A13-C02	LEVER SWITCH	Color
S1751	QSP2C22-C01	PUSH SWITCH	Nor→Auto
S1753	QSP1A11-C10	PUSH SWITCH	TV/Video
S1754	QSP1A11-C10	PUSH SWITCH	1/H
S1755	QSP1A11-C10	PUSH SWITCH	Power
S1756	QSP1A11-C10	PUSH SWITCH	Program
S1757	QSP1A11-C10	PUSH SWITCH	Memory
S1758	QSP1A11-C10	PUSH SWITCH	Fine△
S1759	QSP1A11-C10	PUSH SWITCH	Fine▽
S1760	QSP1A11-C10	PUSH SWITCH	CH/CATV
S1761	QSP1A11-C10	PUSH SWITCH	Position
S1762	QSP1A11-C10	PUSH SWITCH	Search
S1763	QSP1A11-C10	PUSH SWITCH	AFC
S1765	QSP1A11-C10	PUSH SWITCH	Language
S1767	QSP1A11-C10	PUSH SWITCH	Skip
S1768	QSP1A11-C10	PUSH SWITCH	CH△
S1769	QSP1A11-C10	PUSH SWITCH	CH▽
S1770	QSP1A11-C10	PUSH SWITCH	Vol△
S1771	QSP1A11-C10	PUSH SWITCH	Vol▽
S1801	QSL4A13-C02	LEVER SWITCH	Service

SYMBOL NO.	PART NO.	PART NAME	PART NO.	PART NAME	REMARKS
OTHERS	△ S1901	QSP4D21-C06			Power
	TU1001	BK736215-A04			
	X1301	CE41115-001			
	X1501	CSB500F9			
	X1701	CE40842-001			

DEF & POWER PC BOARD ASS'Y (SBY-2304A(U))

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SYMBOL NO.	PART NO.	PART NAME	REMARKS	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR	QVPA603-103A QVPA603-223A QVPA603-23A QVPA804-203A QVPA804-502M	V R (SUB CONTRAST) V R (SUB BRIGHT) V R (SUB COLOR) V R (SIDE PINCORRECTION) V R (H. SIZE)	10kΩ B 22kΩ B 22kΩ B 20kΩ B 5kΩ B	C2618 C2626 C2627 C2901 C2902	E CAP. E CAP. BP E CAP. C CAP. C CAP.	1000μF 220μF 10μF 4700pFAC400V 4700pFAC400V
R2002	QVPA603-103A	V R (SUB CONTRAST)	10kΩ B	QEHC1CM-108MZ	E CAP.	1.6V 3.5V 1.6V M
R2003	QVPA603-223A	V R (SUB BRIGHT)	22kΩ B	QEHC1VM-227MZ	E CAP.	3.5V 1.6V M
R2005	QVPA603-23A	V R (SUB COLOR)	22kΩ B	QEN61CM-106Z	BP E CAP.	1.6V M
R2447	QVPA804-203A	V R (SIDE PINCORRECTION)	20kΩ B	QCZ1034-472A	C CAP.	4.700pFAC400V P
R2449	QVPA804-502M	V R (H. SIZE)	5kΩ B	QCZ1034-472A	C CAP.	4.700pFAC400V P
R2630	QVPA803-201M	V R (12V ADJ.)	200Ω B	C2903	C CAP.	4700pFAC400V P
R2954	QVPE804-102H	V R (B1 ADJ.)	1kΩ B	C2904	C CAP.	4700pFAC400V P
RESISTOR				C2905	C CAP.	2.20μF 4.00V M
R2411	QRG019J-561S	OM R	560Ω	QCZ1034-472A	E CAP.	2.20μF 2kV K
R2414	QRG019J-471S	OM R	470Ω	QCZ1034-472A	E CAP.	2.20μF 2kV K
R2504	QRG029J-221A	OM R	220Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2516	QRG029J-471A	OM R	470Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2531	QRG029J-391A	OM R	390Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2553	QRX029J-1R8	MF R	1.8Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2554	QRX039J-1R8	MF R	1.8Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2555	QRX029J-3R3	MF R	3.3Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2556	QRX039J-6R8	MF R	6.8Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2557	QRG029J-220	OM R	22Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2572	QRV142F-6801	MF R	6.8kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2573	QRV142F-3241	MF R	3.24kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2615	QRG019J-563	OM R	5.6kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2617	QRG019J-680S	OM R	6.8Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2609	QRM055K-R56	MP R	0.56Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2613	QRG029J-560	OM R	5.6Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2614	QRG029J-223	OM R	22kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2616	QRG029J-152	OM R	1.5kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2626	QRG029J-152	OM R	1.5kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2003	QRF104J-100	UNFR	1.0Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2906	QRG029J-223A	OM R	22kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2907	QRG029J-223A	OM R	22kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2910	QRM055K-R22	MP R	0.22Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2912	QRF056J-681C	UNFR	6.8Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2913	QRF076J-102	UNFR	1.0kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2951	QRG029J-122A	OM R	1.2kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2957	QRG019J-331S	OM R	3.3Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2967	QRV142F-1502	MF R	1.15kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2971	QRG029J-151	OM R	1.50Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2972	QRG029J-121	OM R	1.2Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2974	QRG029J-153	OM R	1.5kΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
R2981	QRM055K-R68	MP R	0.68Ω	QEZ1084-227R	E CAP.	2.20μF 4.00V M
CAPACITOR	QRZ0057-825	CR	8.2MΩ	QEZ1084-227R	E CAP.	2.20μF 4.00V M
C2406	QEHC1VM-107MZ	E CAP.	1.000μF	QEZ1084-227R	E CAP.	1600V ±3%
C2441	QFV71H-823M2	TF CAP.	0.082μF	QEZ1084-227R	E CAP.	1600V ±3%
C2442	QFV71HJ-823M2	TF CAP.	0.082μF	QEZ1084-227R	E CAP.	1600V ±3%
C2444	QEHC1AM-108M2	E CAP.	1.000μF	QEZ1084-227R	E CAP.	1600V ±3%
C2503	QEHC1HM-105M2	E CAP.	1.0Ω	QEZ1084-227R	E CAP.	1600V ±3%
C2504	QEHC1HM-476M2	E CAP.	4.7μF	QEZ1084-227R	E CAP.	50V J
C2505	QEHC1VM-107MZ	MPP CAP.	1.000pF	QEZ1084-227R	MPP CAP.	1600V ±3%
C2506	QFV0081-1001S	MPP CAP.	9.200pF	QEZ1084-227R	MPP CAP.	1600V ±3%
C2507	QFV71H-9201S	MPP CAP.	0.082μF	QEZ1084-227R	MPP CAP.	1600V ±3%
C2508	QFP32GJ-223M	PP CAP.	1.000μF	QEZ1084-227R	PP CAP.	1600V ±3%
C2509	QFV0059-254S	MPP CAP.	0.25μF	QEZ1084-227R	MPP CAP.	1600V ±3%
C2574	QFV81HJ-104M	TF CAP.	0.1μF	QEZ1084-227R	TF CAP.	50V J
C2668	QEHC12AM-106M	E CAP.	1.0μF	QEZ1084-227R	E CAP.	100V M
C2669	QCZ0122-152A	C CAP.	1.500pF	QEZ1084-227R	C CAP.	2kV K
C2671	QEM61HK-106M2	E CAP.	2.2μF	QEZ1084-227R	E CAP.	50V K
C2673	QEM61EK-106M2	E CAP.	1.0μF	QEZ1084-227R	E CAP.	2.5V K
2/4	SYMBOL NO.	PART NO.	PART NAME	PART NO.	PART NAME	REMARKS

SYMBOL NO.	PART NO.	PART NAME	REMARKS	PART NO.	PART NAME	REMARKS
RESISTOR	R2411	OM R	560Ω	C2910	E CAP.	1.6V K
R2414	OM R	470Ω	QEZ1084-227R	C2911	E CAP.	2.20μF 2.5V K
R2504	OM R	220Ω	QEZ1084-227R	C2912	E CAP.	2.20μF 2.5V M
R2516	OM R	470Ω	QEZ1084-227R	C2913	E CAP.	2.20μF 2.5V M
R2531	OM R	390Ω	QEZ1084-227R	C2914	E CAP.	2.20μF 2.5V M
R2553	MF R	1.8Ω	QEZ1084-227R	C2915	E CAP.	2.20μF 2.5V M
R2554	MF R	1.8Ω	QEZ1084-227R	C2916	E CAP.	2.20μF 2.5V M
R2555	MF R	3.3Ω	QEZ1084-227R	C2917	E CAP.	2.20μF 2.5V M
R2556	MF R	6.8Ω	QEZ1084-227R	C2918	E CAP.	2.20μF 2.5V M
R2557	OM R	22Ω	QEZ1084-227R	C2919	E CAP.	2.20μF 2.5V M
R2572	MF R	6.8kΩ	QEZ1084-227R	C2920	E CAP.	2.20μF 2.5V M
R2573	MF R	3.24kΩ	QEZ1084-227R	C2921	E CAP.	2.20μF 2.5V M
R2615	OM R	5.6kΩ	QEZ1084-227R	C2922	E CAP.	2.20μF 2.5V M
R2617	OM R	6.8Ω	QEZ1084-227R	C2923	E CAP.	2.20μF 2.5V M
R2609	MP R	0.56Ω	QEZ1084-227R	C2924	E CAP.	2.20μF 2.5V M
R2613	OM R	5.6Ω	QEZ1084-227R	C2925	E CAP.	2.20μF 2.5V M
R2614	OM R	22kΩ	QEZ1084-227R	C2926	E CAP.	2.20μF 2.5V M
R2616	OM R	1.5kΩ	QEZ1084-227R	C2927	E CAP.	2.20μF 2.5V M
R2626	OM R	1.5kΩ	QEZ1084-227R	C2928	E CAP.	2.20μF 2.5V M
R2003	UNFR	1.0Ω	QEZ1084-227R	C2929	E CAP.	2.20μF 2.5V M
R2906	OM R	22kΩ	QEZ1084-227R	C2930	E CAP.	2.20μF 2.5V M
R2907	OM R	22kΩ	QEZ1084-227R	C2931	E CAP.	2.20μF 2.5V M
R2910	MP R	0.22Ω	QEZ1084-227R	C2932	E CAP.	2.20μF 2.5V M
R2912	UNFR	6.8Ω	QEZ1084-227R	C2933	E CAP.	2.20μF 2.5V M
R2913	UNFR	1.0kΩ	QEZ1084-227R	C2934	E CAP.	2.20μF 2.5V M
R2951	OM R	1.2kΩ	QEZ1084-227R	C2935	E CAP.	2.20μF 2.5V M
R2957	QRG019J-331S	OM R	3.3Ω	QEZ1084-227R	E CAP.	2.20μF 2.5V M
R2967	QRV142F-1502	MF R	1.15kΩ	QEZ1084-227R	E CAP.	2.20μF 2.5V M
R2971	QRG029J-151	OM R	1.50Ω	QEZ1084-227R	E CAP.	2.20μF 2.5V M
R2972	QRG029J-121	OM R	1.2Ω	QEZ1084-227R	E CAP.	2.20μF 2.5V M
R2974	QRG029J-153	OM R	1.5kΩ	QEZ1084-227R	E CAP.	2.20μF 2.5V M
R2981	QRM055K-R68	MP R	0.68Ω	QEZ1084-227R	E CAP.	2.20μF 2.5V M
CAPACITOR	QRZ0057-825	CR	8.2MΩ	QEZ1084-227R	E CAP.	2.20μF 2.5V M
C2406	QEHC1VM-107MZ	E CAP.	1.000μF	QEZ1084-227R	E CAP.	1600V ±3%
C2441	QFV71H-823M2	TF CAP.	0.082μF	QEZ1084-227R	TF CAP.	1600V ±3%
C2442	QFV71HJ-823M2	TF CAP.	0.082μF	QEZ1084-227R	TF CAP.	1600V ±3%
C2444	QEHC1AM-108M2	E CAP.	1.000μF	QEZ1084-227R	E CAP.	1600V ±3%
C2503	QEHC1HM-105M2	E CAP.	1.0Ω	QEZ1084-227R	E CAP.	1600V ±3%
C2504	QEHC1HM-476M2	E CAP.	4.7μF	QEZ1084-227R	E CAP.	50V J
C2505	QEHC1VM-107MZ	MPP CAP.	1.000pF	QEZ1084-227R	MPP CAP.	1600V ±3%
C2506	QFV0081-1001S	MPP CAP.	9.200pF	QEZ1084-227R	MPP CAP.	1600V ±3%
C2507	QFV71H-9201S	C CAP.	0.082μF	QEZ1084-227R	C CAP.	2kV K
C2508	QFP32GJ-223M	PP CAP.	1.000μF	QEZ1084-227R	PP CAP.	400V K
C2509	QFV0059-254S	MPP CAP.	0.25μF	QEZ1084-227R	MPP CAP.	400V K
C2574	QFV81HJ-104M	TF CAP.	0.1μF	QEZ1084-227R	TF CAP.	50V J
C2668	QEHC12AM-106M	E CAP.	1.0μF	QEZ1084-227R	E CAP.	100V M
C2669	QCZ0122-152A	C CAP.	1.500pF	QEZ1084-227R	C CAP.	2kV K
C2671	QEM61HK-106M2	E CAP.	2.2μF	QEZ1084-227R	E CAP.	50V K
C2673	QEM61EK-106M2	E CAP.	1.0μF	QEZ1084-227R	E CAP.	2.5V K
2/4	SYMBOL NO.	PART NO.	PART NAME	PART NO.	PART NAME	REMARKS

SYMBOL NO.		PART NO.	PART NAME	REMARKS	REMARKS	
DIODE	D2574	ISS133-Y	SI. DIODE			
	D2575	MA4062(M)-Y	ZENER DIODE		I. C.	
	D2576	RD15E(B)	ZENER DIODE		I. C.	
	D2602	RU1C-LFA1	SI. DIODE		I. C.	(H)
	D2603	EG1Z-Z	SI. DIODE		I. C.	(M)
	D2604	EG1Z-Z	SI. DIODE		OTHERS	IC PROTECTOR
	D2605	EU2A-Z	SI. DIODE		ICP-N38-Y	IC PROTECTOR
	D2606	RL2Z	SI. DIODE		ICP-N38-Y	IC PROTECTOR
	D2607	RD9.1E(B)	ZENER DIODE		AX49607-004	HEADPHONE JACK
	D2608	EU2A-Z	SI. DIODE		J2001	J
	D2609	RD30E(B2)	ZENER DIODE		R2571	J
	D2610	EU2A-Z	SI. DIODE		R2611	J
	D2614	RD36E(B3)	ZENER DIODE		R2623	J
	D2901	D3SBA60	DIODE BRIDGE		R2632	J
	D2902	SF542	THYRISTOR		R2959	J
	D2904	RG1C-LFA1	SI. DIODE		R2959	J
	D2905	RG1C-LFA1	SI. DIODE		R2959	J
	D2908	ISS81-R	SI. DIODE		S2001	J
	D2909	ISS81-R	SI. DIODE		S2003	J
	D2951	RG4C-LFK2	SI. DIODE		S2006	J
	D2952	EU2A	SI. DIODE		S2007	J
	D2955	ISS133-Y	SI. DIODE		S2008	J
	D2956	ISS81-R	SI. DIODE		S2009	J
	D2958	MA4150(M)-Y	SI. DIODE		S2010	J
	D2959	RD5.6E(B2)	ZENER DIODE		QSP1A1-1-C10	MEMORY
	D2961	ISS146-Y	SI. DIODE		QSP1A1-1-C10	V. CENTER
	D2962	ISS146-Y	SI. DIODE		QSP1A1-1-C10	
	D2963	ISS146	SI. DIODE		QSP1A1-1-C10	
	D2965	EU2A-Z	SI. DIODE		QSP1A1-1-C10	
	D2966	ISS146-Y	SI. DIODE		QSP1A1-1-C10	
	D2967	EU2A-Z	SI. DIODE		QSP1A1-1-C10	
	D2968	ISS81-R	SI. DIODE		QSP1A1-1-C10	
	D2970	ISS146-Y	SI. DIODE		QSP1A1-1-C10	
	D2971	ISS133-Y	SI. DIODE		QSP1A1-1-C10	
	TRANSISTOR	Q2401	2SA1015(Y, GR) Y	S.I. TRANSISTOR	QSP1A1-1-C10	
		2SC1890A(E, F) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2402	2SD1545	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2441	2SC1815(Y, GR) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2442	2SA1015(Y, GR) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2443	2SD1266A(P, Q)	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2501	2SC3669(O, Y) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2502	2SD1545	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2503	2SC1815(Y, GR) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2504	2SA1015(Y, GR) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2571	2SC1815(Y, GR) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2572	2SC1815(Y, GR) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2573	2SA1015(Y, GR) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2603	2SA966-Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2604	2SC1815(GR)-Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2606	2SC1815(Y, GR) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2901	2SC4237	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2951	2SC666(O, Y) Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2952	2SC6655(Y)	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2952	2SC6668(Y)	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2953	2SA142(O, Y)-Y	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2954	2SC2655(Y)	S.I. TRANSISTOR		QSP1A1-1-C10	
	Q2954	2SC3668(Y)	S.I. TRANSISTOR		QSP1A1-1-C10	

CRT SOCKET PC BOARD ASS'Y (SBY-3054A(U))

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DIGITAL SOUND PC BOARD ASS'Y (SBY-6001A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR	R3113	QVPA803-502M	V R (R CUT OFF)	5 kΩ B	MF R	9. 1kΩ 1/4W F
	R3114	QVPA803-502M	V R (G CUT OFF)	5 kΩ B	MF R	1. 2kΩ 1/4W F
	R3115	QVPA803-502M	V R (B CUT OFF)	5 kΩ B	MF R	9. 1kΩ 1/4W F
	R3119	QVPA803-201M	V R (R DRIVE)	200 Ω B	MF R	1. 2kΩ 1/4W F
	R3120	QVPA803-201M	V R (G DRIVE)	200 Ω B	OM R	3.9 kΩ 3W J
RESISTOR	R3104	QRC029J-153A	OM R		MF R	4. 7 Ω 3W J
	R3105	QRG019J-153A	OM R	1.5 kΩ 2W J		
	R3106	QRG019J-153A	OM R	1.5 kΩ 2W J	6.6 pF	50V J
	R3107	QRG019J-183A	OM R	1.8 kΩ 2W J	6.6 pF	50V J
	R3108	QRG019J-183A	OM R	1.8 kΩ 2W J	6.6 pF	50V J
	R3109	QRG029J-183A	OM R	1.8 kΩ 2W J	6.6 pF	50V J
	R3125	QRZ0056-332Z	COMP. R	3.3 kΩ 1/2W K	QCT25CH-6R0AZ	C CAP.
	R3126	QRZ0056-332Z	COMP. R	3.3 kΩ 1/2W K	QCT25CH-560Z	C CAP.
	R3127	QRZ0056-332Z	COMP. R	3.3 kΩ 1/2W K	QCT25CH-220Z	C CAP.
	R3128	QRZ0056-332Z	COMP. R	3.3 kΩ 1/2W K	QCT25CH-120Z	C CAP.
	R3129	QRZ0056-332Z	COMP. R	3.3 kΩ 1/2W K	QAT3110-300A	TRIM CAP.
	R3130	QRZ0056-332Z	COMP. R	3.3 kΩ 1/2W K	QAT3110-300A	TRIM CAP.
CAPACITOR	C3161	QFHF5BK-223M	MM CAP.	0.022 μF 1250V	QCT25CH-560Z	C CAP.
COIL	L3101	QQL043K-101	PEAKING COIL	100 μH	QCT25CH-180Z	C CAP.
	L3102	QQL043K-101	PEAKING COIL	100 μH	QCT25CH-180Z	C CAP.
	L3103	A76186-472	PEAKING COIL	4.7 μF	QPP31HJ-681S2	C CAP.
	L3104	A76186-472	PEAKING COIL	4.7 μF	QPP31HJ-681S2	C CAP.
	L3105	A76186-472	PEAKING COIL	4.7 μF	QPP31HJ-681S2	C CAP.
	L3106	A76186-472	PEAKING COIL	4.7 μF	QPP31HJ-681S2	C CAP.
DIODE	D3101	ISS1333-Y	S.I. DIODE		C6491	QEN61HM-105Z
	D3102	ISS1333-Y	S.I. DIODE		C6492	QEN61CM-106Z
	D3103	ISS1333-Y	S.I. DIODE		C6493	QEN61CM-106Z
	D3104	ISS1333-Y	S.I. DIODE		C6494	QEN61CM-105Z
	D3105	ISS1333-Y	S.I. DIODE		C6501	QEN61CM-106Z
TRANSISTOR	Q3101	2SC1360	S.I. TRANSISTOR		C6502	QEN61CM-106Z
	Q3102	2SC1360	S.I. TRANSISTOR		C6503	QEN61CM-106Z
	Q3103	2SC1360	S.I. TRANSISTOR		C6504	QEN61CM-106Z
	Q3104	2SC2068-LB	S.I. TRANSISTOR	R. Out	C6505	QEN61CM-106Z
	Q3105	2SC2068-LB	S.I. TRANSISTOR	R. Out	C6511	QEN61CM-106Z
OTHERS	A75522-C	CRT SOCKET		C6512	QEN61CM-106Z	
	Q3106	2SC2068-LB	S.I. TRANSISTOR		C6513	QEN61CM-106Z
	Q3151	2SC1360	S.I. TRANSISTOR		C6514	QEN61CM-106Z
	Q3152	2SC1360	S.I. TRANSISTOR			
	Q3153	2SC1360	S.I. TRANSISTOR			
	△	A75522-C	CRT SOCKET			
	T6103			T6201	CCE40119-303	CW TRANSF.
	T6161			T6201	CCE40737-201	SIF TRANSF.
	COIL			COIL	CE40143-R56	
	L6101			L6102	A76186-1	PEAKING COIL
	L6102			L6104	A76186-6	PEAKING COIL
	L6104			L6105	A76186-6	PEAKING COIL
	L6105			L6106	A76186-6	PEAKING COIL
	L6106			L6107	A76186-6	PEAKING COIL
	L6107			L6108	A76186-6	PEAKING COIL
	L6108			L6109	A76186-8	PEAKING COIL
	L6109			L6202	A76186-8	PEAKING COIL
	L6202			L6201	A76186-8	PEAKING COIL
	L6401			L6402	A76186-3	PEAKING COIL
	L6402			L6901	A76186-6	PEAKING COIL
	L6901					
DIODE	D6702	ISS1333-Y				SI. DIODE
	D6703	ISS1333-Y				SI. DIODE

A/V TERMINAL PC BOARD ASS'Y (SBY-7003A(U))

2/2	SYMBOL NO.	PART NO.	PART NAME	REMARKS	1/2	SYMBOL NO.	PART NO.	PART NAME	REMARKS
DIODE	D6704	ISS133-Y	S.I. DIODE			CAPACITOR	QEKC1HM-1.05GMZ	E CAP.	1.0μF 50V M
	D6705	ISS133-Y	S.I. DIODE				QEKC1HM-0.5GMZ	E CAP.	1.0μF 50V M
	D6706	ISS133-Y	S.I. DIODE				QEKC1HM-0.5GMZ	E CAP.	1.0μF 50V M
	D6901	RDI1E(B2)-Y	ZENER DIODE				QEKC1HM-0.5GMZ	E CAP.	1.0μF 50V M
	D6902	ISS133-Y	S.I. DIODE				QEN61HM-1.05Z	BP E CAP.	1.0μF 50V M
TRANSISTOR	Q6101	2SC1360	S.I. TRANSISTOR				C7006	QEN61HM-1.05Z	BP E CAP.
	Q6104	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7008	QEKC1CM-1.05GMZ	E CAP.
	Q6201	2SA933S (Q, R) -Y	S.I. TRANSISTOR				C7009	QEKC1CM-1.05GMZ	E CAP.
	Q6251	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7011	QEKC1CM-1.05Z	E CAP.
	Q6311	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7101	QEKC1CM-4.76MZ	E CAP.
	Q6312	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7102	QEKC1CM-3.36MZ	E CAP.
	Q6313	2SC2878 (B) -Y	S.I. TRANSISTOR				C7104	QEKC1CM-3.36MZ	E CAP.
	Q6501	2SC2878 (B) -Y	S.I. TRANSISTOR				C7107	QEKC1CM-3.36MZ	E CAP.
	Q6502	2SC2878 (B) -Y	S.I. TRANSISTOR				C7110	QEKC1CM-4.76MZ	E CAP.
	Q6520	2SC1740 (Q, R) -Y	S.I. TRANSISTOR				C7111	QEKC1CM-4.76MZ	E CAP.
	Q6530	2SC1740 (Q, R) -Y	S.I. TRANSISTOR				C7114	QEKC1CM-1.07MZ	E CAP.
	Q6591	2SA133S (Q, R) -Y	S.I. TRANSISTOR				C7201	QEKC1VM-17.5GMZ	E CAP.
	Q6701	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7202	QEKC1VM-17.5GMZ	E CAP.
	Q6702	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7203	QEKC1VM-4.75GMZ	E CAP.
	Q6703	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7204	QEKC1VM-4.75GMZ	E CAP.
	Q6704	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7205	QEKC1VM-4.75GMZ	E CAP.
	Q6705	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7206	QEKC1VM-4.75GMZ	E CAP.
	Q6706	2SC1740S (Q, R) Y	S.I. TRANSISTOR				C7209	QEKC1CM-1.06GMZ	E CAP.
	Q6707	2SC1740S (Q, R) Y	S.I. TRANSISTOR			COIL	L7801	CJ30030-005	HEATER CHOKE
	Q6708	2SC1740S (Q, R) Y	S.I. TRANSISTOR				L7802	CJ30030-005	HEATER CHOKE
	Q6709	2SC1740S (Q, R) Y	S.I. TRANSISTOR			DIODE	D7001	RD13JS-Y	SI DIODE
	Q6710	2SC1740S (Q, R) Y	S.I. TRANSISTOR				D7002	RD13JS-Y	SI DIODE
	Q6711	2SC1740S (Q, R) Y	S.I. TRANSISTOR				D7003	RD13JS-Y	SI DIODE
	Q6712	2SC1740S (Q, R) Y	S.I. TRANSISTOR				D7004	RD13JS-Y	SI DIODE
	Q6713	2SC1740S (Q, R) Y	S.I. TRANSISTOR				D7005	RD13JS-Y	SI DIODE
	Q6714	2SC1740S (Q, R) Y	S.I. TRANSISTOR				D7006	RD13JS-Y	SI DIODE
	Q6901	2SC1740 (Q, R) -Y	S.I. TRANSISTOR				D7007	RD13JS-Y	SI DIODE
IC	IC6101	M51366-SP	L. C. (M)				D7008	RD13JS-Y	SI DIODE
	IC6201	TA8662N	L. C. (M)				D7009	RD13JS-Y	SI DIODE
	IC6301	VC2050	L. C. (M)				D7010	RD13JS-Y	SI DIODE
	IC6302	M5M21C67P-55	L. C. (M)				D7011	RD13JS-Y	SI DIODE
	IC6401	TD6710AN	L. C. (M)				D7012	RD13JS-Y	SI DIODE
	IC6421	M52138L	L. C. (M)				D7015	RD13JS-Y	SI DIODE
	IC6450	CE41664-001	H. I. C.				D7016	RD13JS-Y	SI DIODE
	IC6451	CE41664-001	H. I. C.				D7109	RD13JS-Y	SI DIODE
	IC6500	M51551P	L. C. (M)				D7110	RD13JS-Y	SI DIODE
	IC6501	TK15021Z	L. C. (M)				D7111	RD13JS-Y	SI DIODE
	IC6502	M52138L	L. C. (M)				D7112	RD13JS-Y	SI DIODE
	IC6911	TA78L005AP	L. C. (M)				D7201	RD13JS-Y	SI DIODE
	IC6921	TA78012AP	L. C. (M)						
OTHERS	CF6401	CSA16.933MX040	C RESONATOR				Q7001	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	CF6601	A75088-C	CERAMIC FILTER				Q7002	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	CF6602	A75088-C	CERAMIC FILTER				Q7003	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	R6500	QRZ0054-470M	F. R.				Q7005	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	SF6101	CE41031-403	SAW FILTER				Q7006	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	X6201	CE41539-001	X-TAL				Q7007	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
	X6202	CE41540-001	X-TAL				Q7008	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
							Q7009	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
							Q7010	2SC1815 (Y, GR) Y	S.I. TRANSISTOR
							Q7101	2SC1815 (Y, GR) Y	S.I. TRANSISTOR

LINE FILTER PC BOARD ASS'Y (SBY-9007A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
TRANSISTOR Q7102	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7107	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7109	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7110	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7111	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7112	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7113	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7115	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7201	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7202	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
Q7203	ZSC1815 (Y, GR) Y	S.I. TRANSISTOR	
IC 1C	TC4066BP	I. C. (M)	
	TC4066BP	I. C. (M)	
	TC4066BP	I. C. (M)	
	TC4066BP	I. C. (M)	
	TC4066BP	I. C. (M)	
IC 7103	TC4066BP	I. C. (M)	
IC 7104	TC4066BP	I. C. (M)	
IC 7201	TC4066BP	I. C. (M)	
IC 7202	TC4066BP	I. C. (M)	
OTHERS	DL7101	DELAY LINE	
	CE41042-002	SCART CONNECTOR	Peri 1
	CE40529-006	SCART CONNECTOR	Peri 2
	J7001	DIN CONNECTOR	S. In
	J7002	DIN CONNECTOR	Audio In
	J7003	PIN JACK	
	J7004	PIN JACK	
	J7005	PIN JACK	TV Audio Out
	J7006	SP TERMINAL	SP Out

MICOM SUPPORT PC BOARD ASS'Y (SBY-8001A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR C8002	QFV81HJ-104M	TF CAP.	0. 1 μ F
C8003	QFV81HJ-104M	TF CAP.	0. 1 μ F
DIODE D8001	ISS1133	S.I. DIODE	
TRANSISTOR Q8001	ZSC1815 (Y, GR)	S.I. TRANSISTOR	
IC 1C	MN4050B	I. C. (M)	
IC 8002	MN4050B MN4013B	I. C. (M)	

■ MODULE PRINTED CIRCUIT BOARD PARTS LIST

• The following module PC boards are supplied as assemblies. The component parts on the module PC boards are available only when the parts are listed in the "Module Printed Circuit Board Parts List".

(A) D.L. APACON MODULE (SBY-D001A(U))

(B) IF MODULE (SBY-F002A-MU4)

(C) STATION SELECT MODULE (SBY-M005A(U))

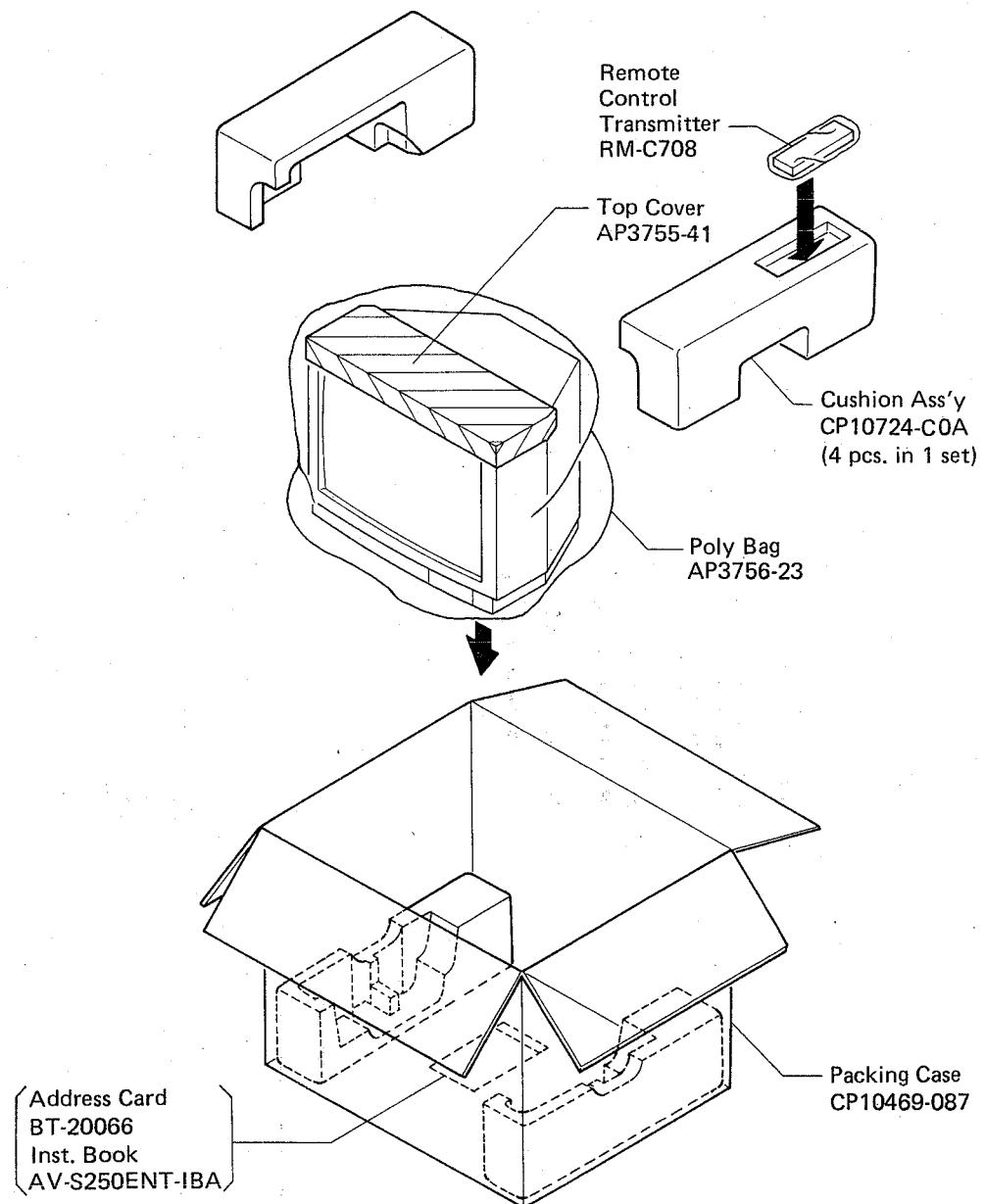
(D) PERI MODULE (SBY-P006A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR R1002	QVPA601-103A	V R (B CUT OFF)	10k Ω B
	QVPA601-103A	V R (R CUT OFF)	10k Ω B
R1004	QVPA601-472A	V R (SUB BRIGHT)	4. 7k Ω B
R1006	QVPA601-223A	V R (SUB CONTRAST)	22k Ω B
R1012			

(E) RGB SWITCH MODULE (SBY-R002A(U))

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR C1016	QAT3110-300A	TRIM CAP.	30pF

■ PACKING DIAGRAM



CAUTION

- The parts marked  are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The parts which do not have the drawing in this Parts List, P.C. Board Ass'y and the Part No. columns of which are filled with lines —, will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in **(NOTE 2)** "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board. When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to **(NOTE 2)**.

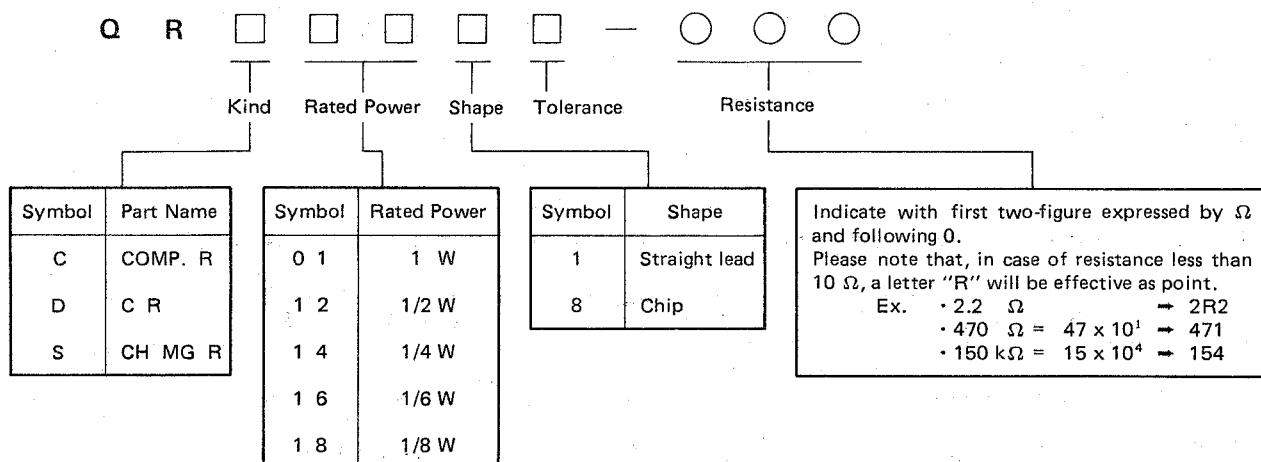
(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Aluminum Bi-Polar Electrolytic Capacitor

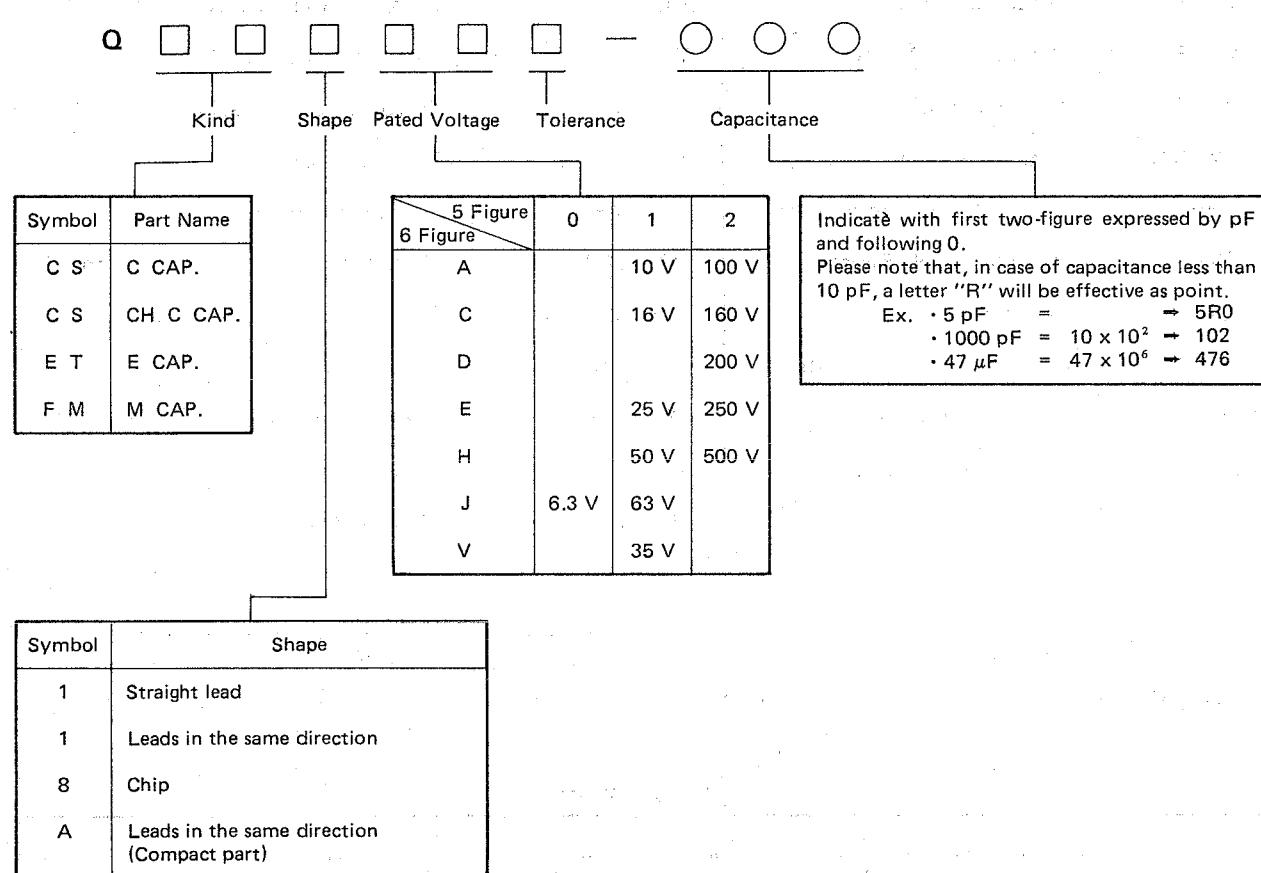
TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
± 1 %	± 2 %	± 5 %	± 10 %	± 20 %	± 30 %	+ 30 % - 10 %	+ 50 % - 10 %	+ 80 % - 20 %	+ 100 % - 0 %

NOTE 2 HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR

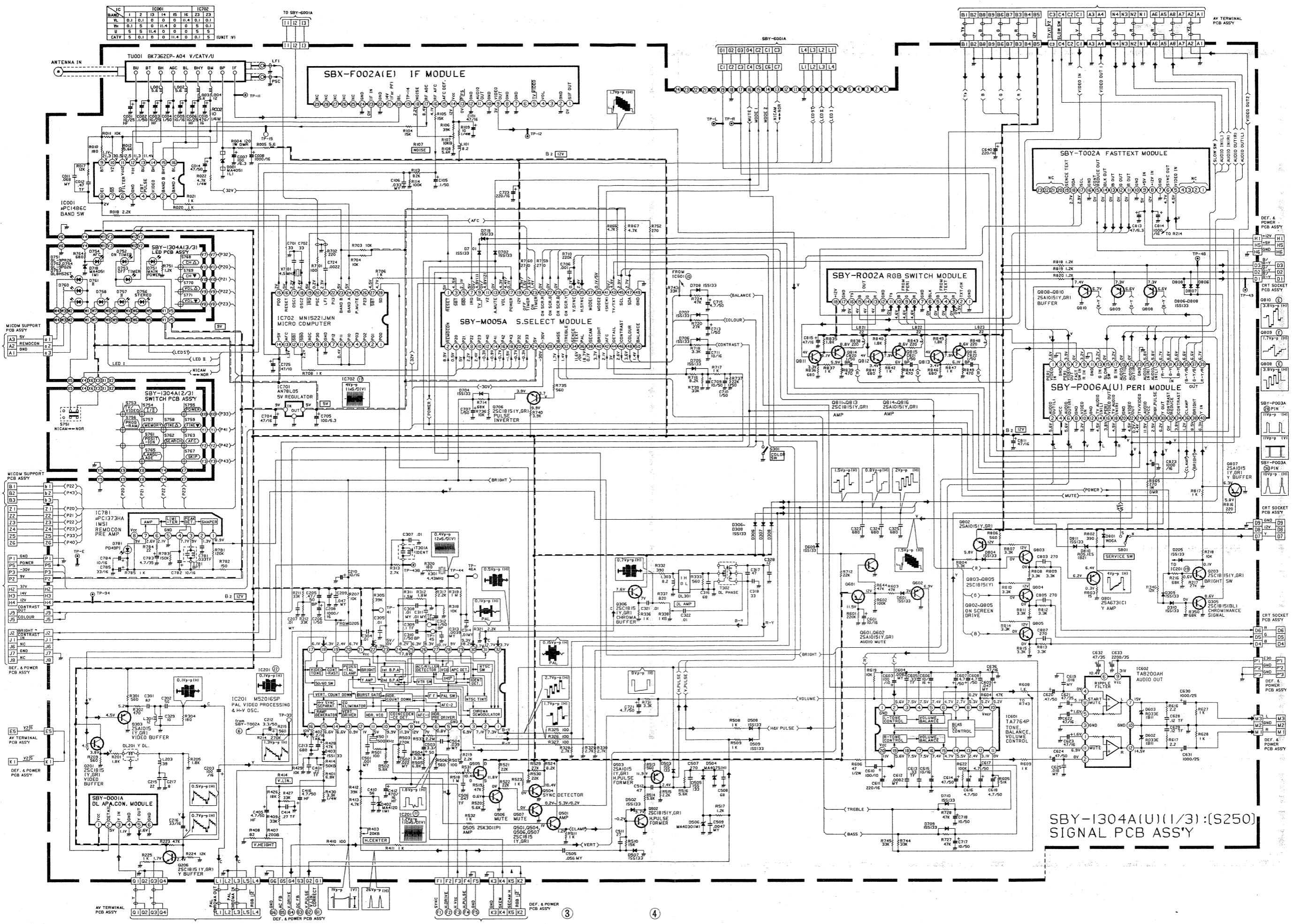


■ CAPACITOR



SIGNAL PCB SCHEMATIC DIAGRAM

(A) AV-S250ENT AV-S250ENT (A)

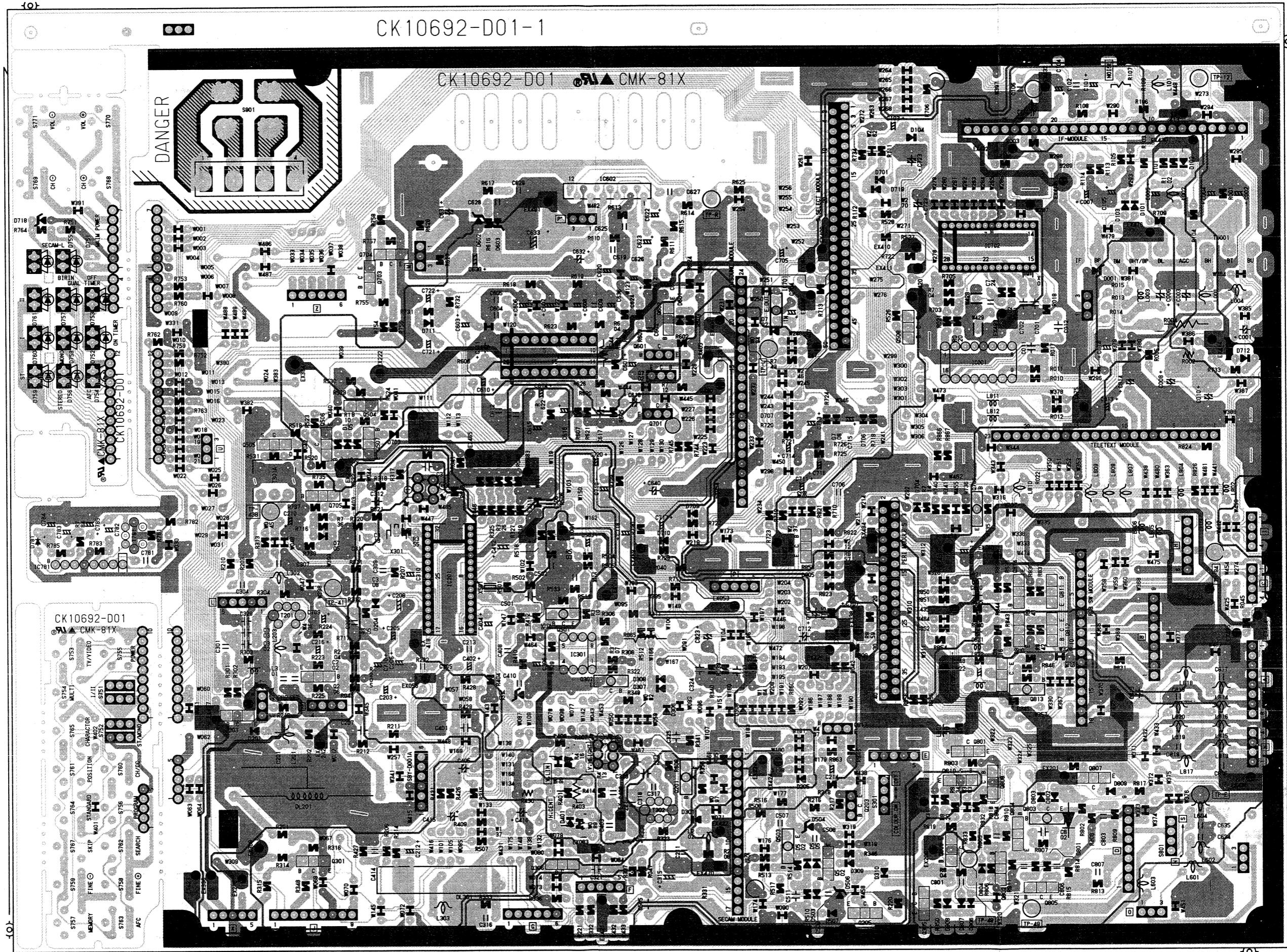


SIGNAL PCB BACK PATTERN

(A) AV-S250ENT AV-S250ENT (A)

CK10692-D01-1

FRONT



: solder side (signal etc.)

: solder side (ground)

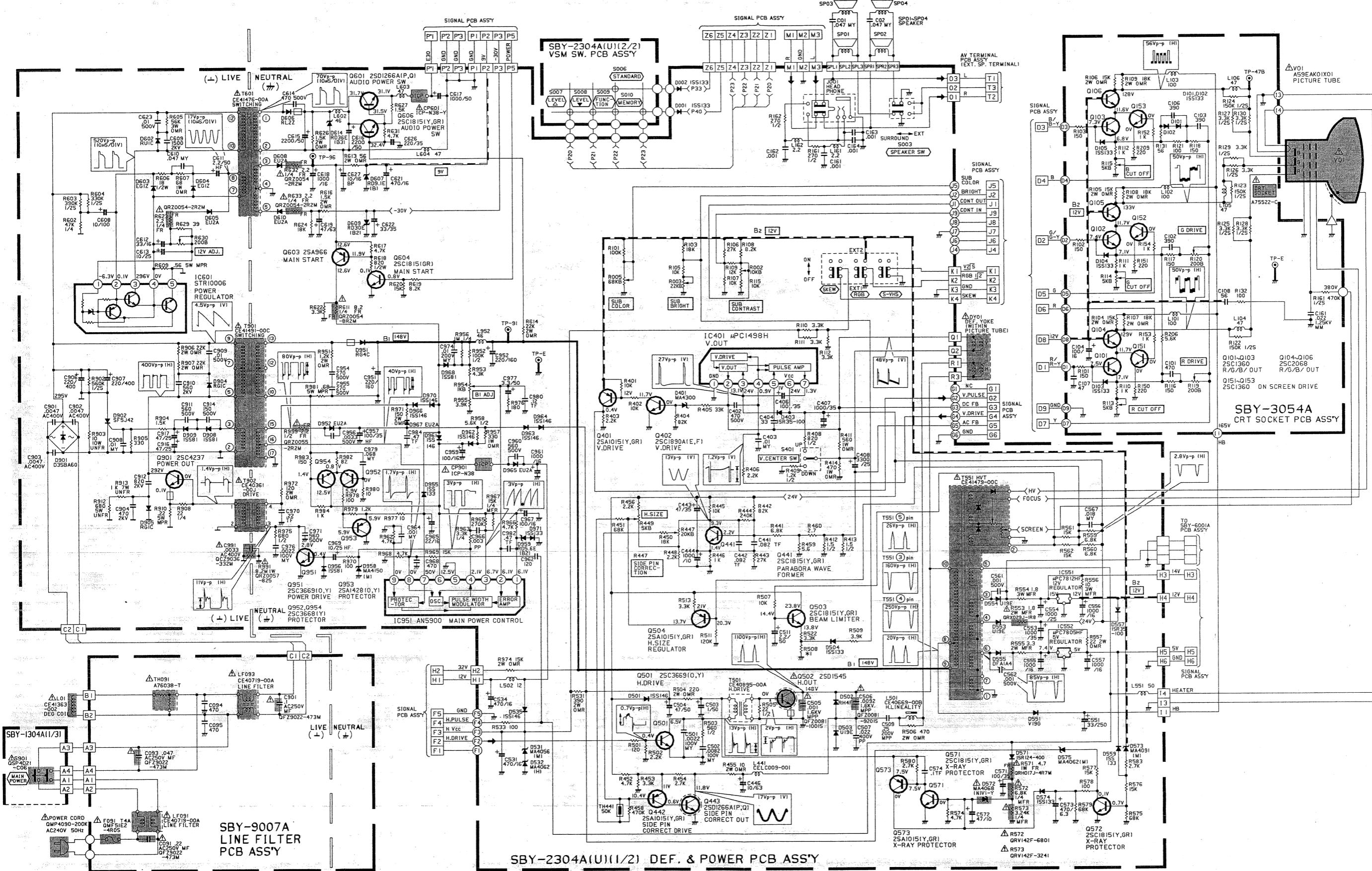
: part side

⑤

⑥

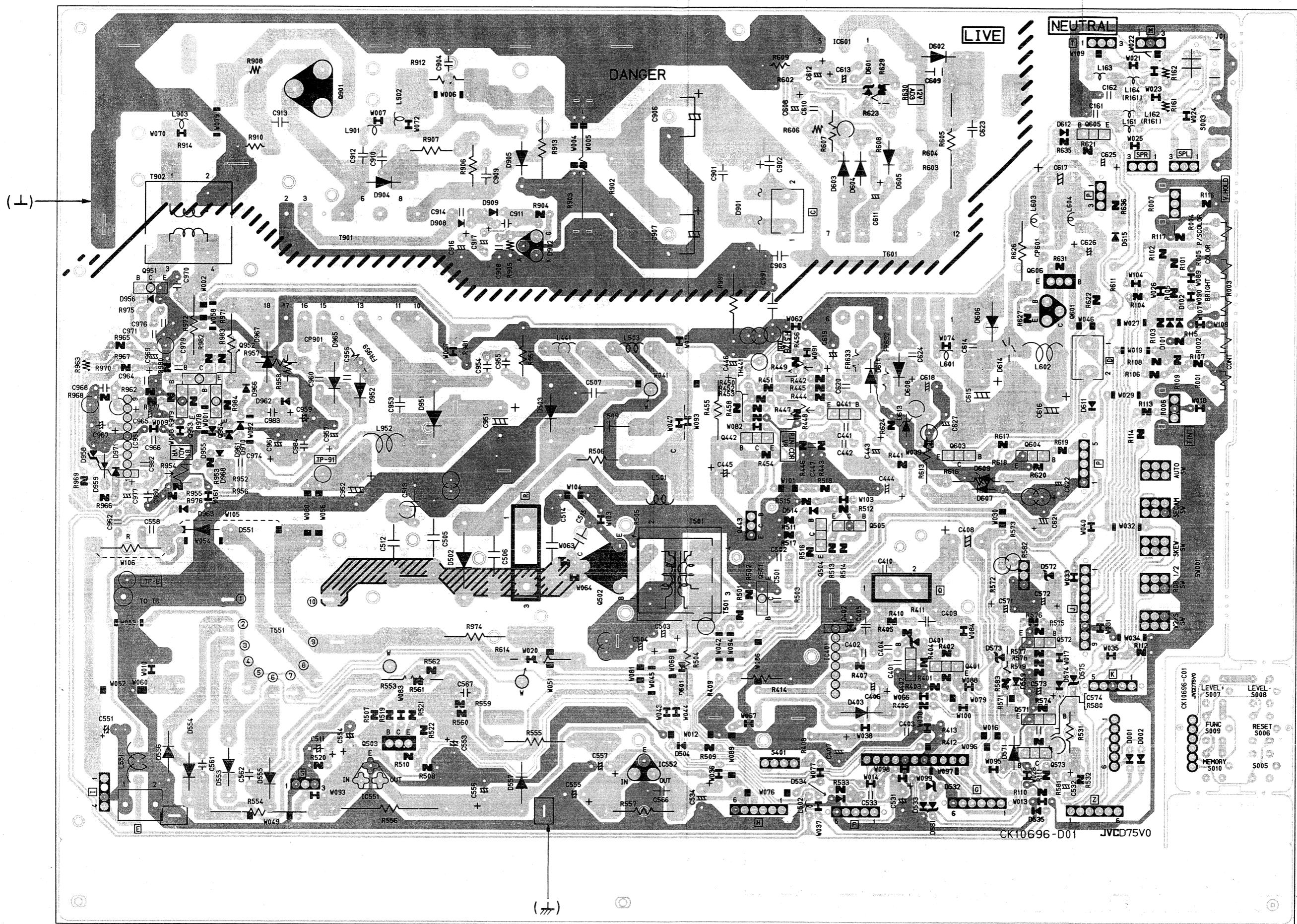
DEF & POWER PCB SCHEMATIC DIAGRAM

(A) AV-S250ENT AV-S250ENT (A)

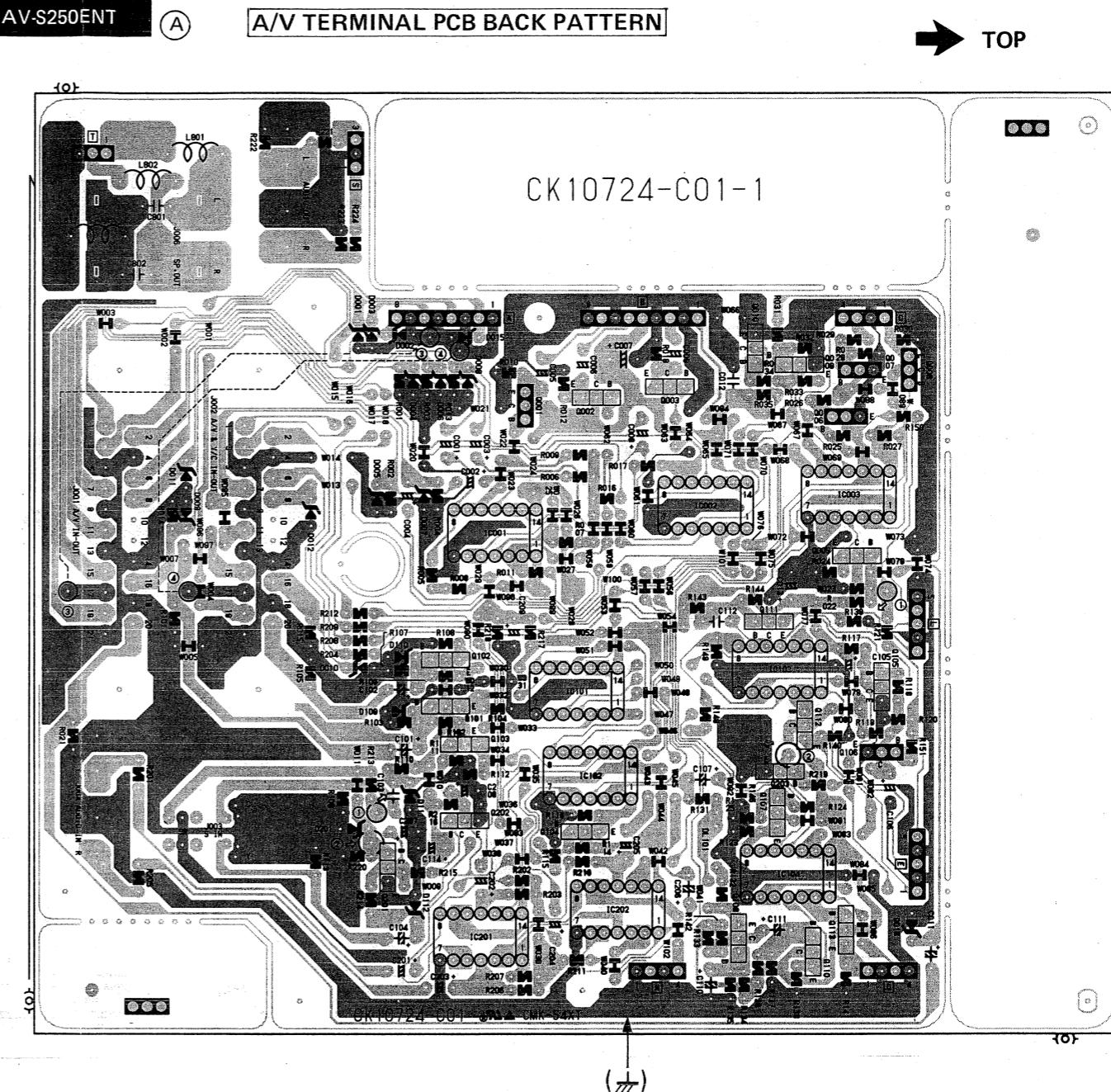
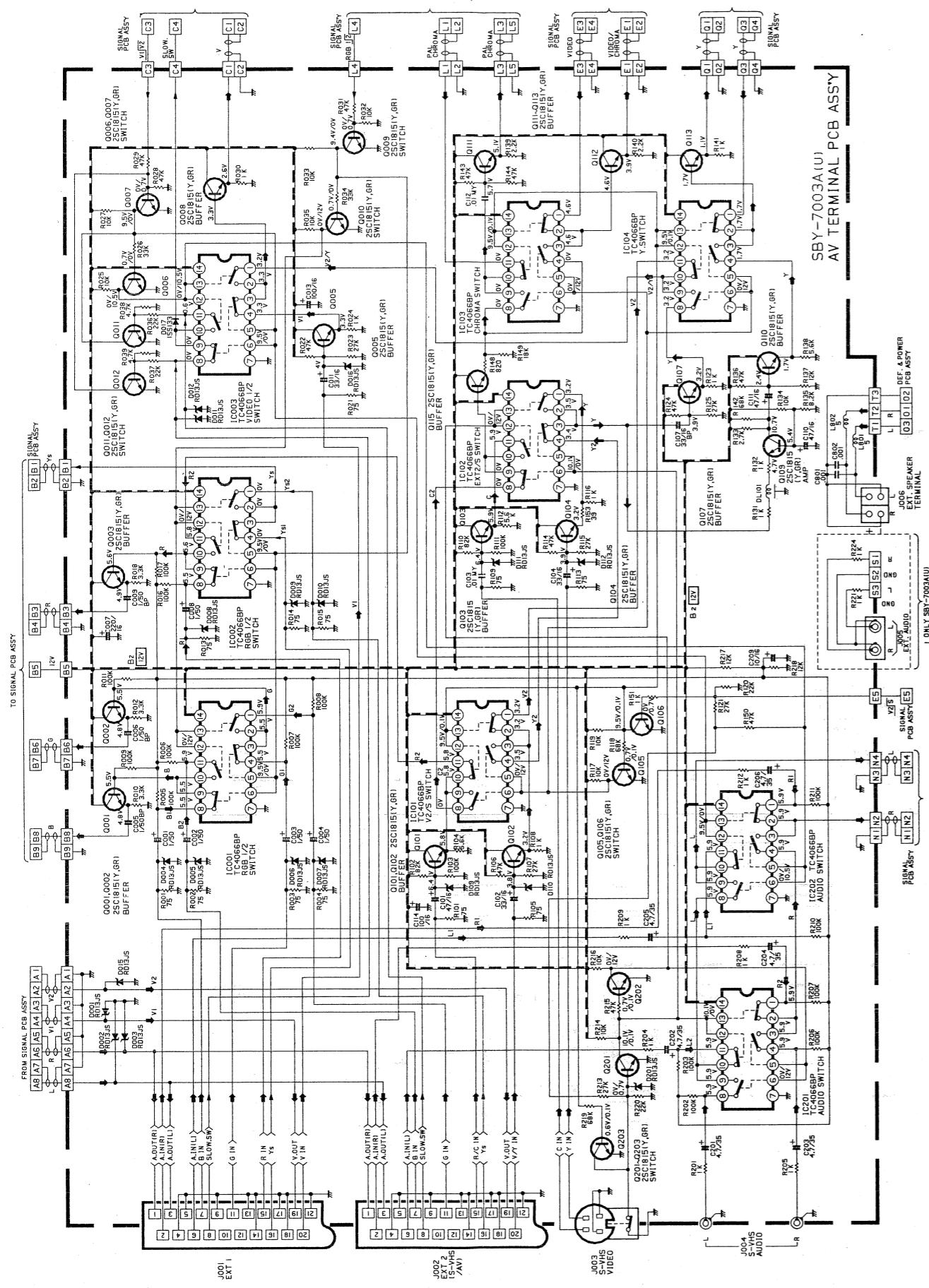


DEF & POWER PCB BACK PATTERN

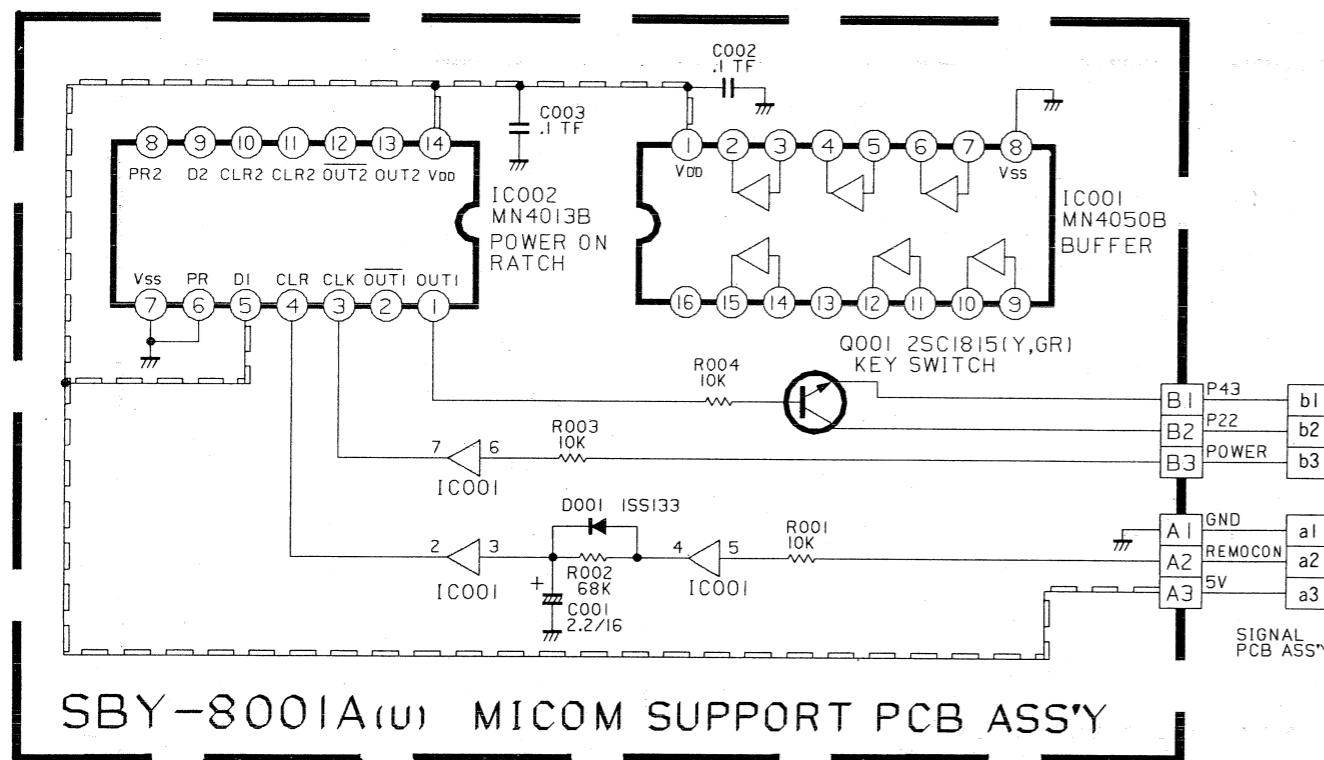
(A) AV-S250ENT AV-S250ENT (A)



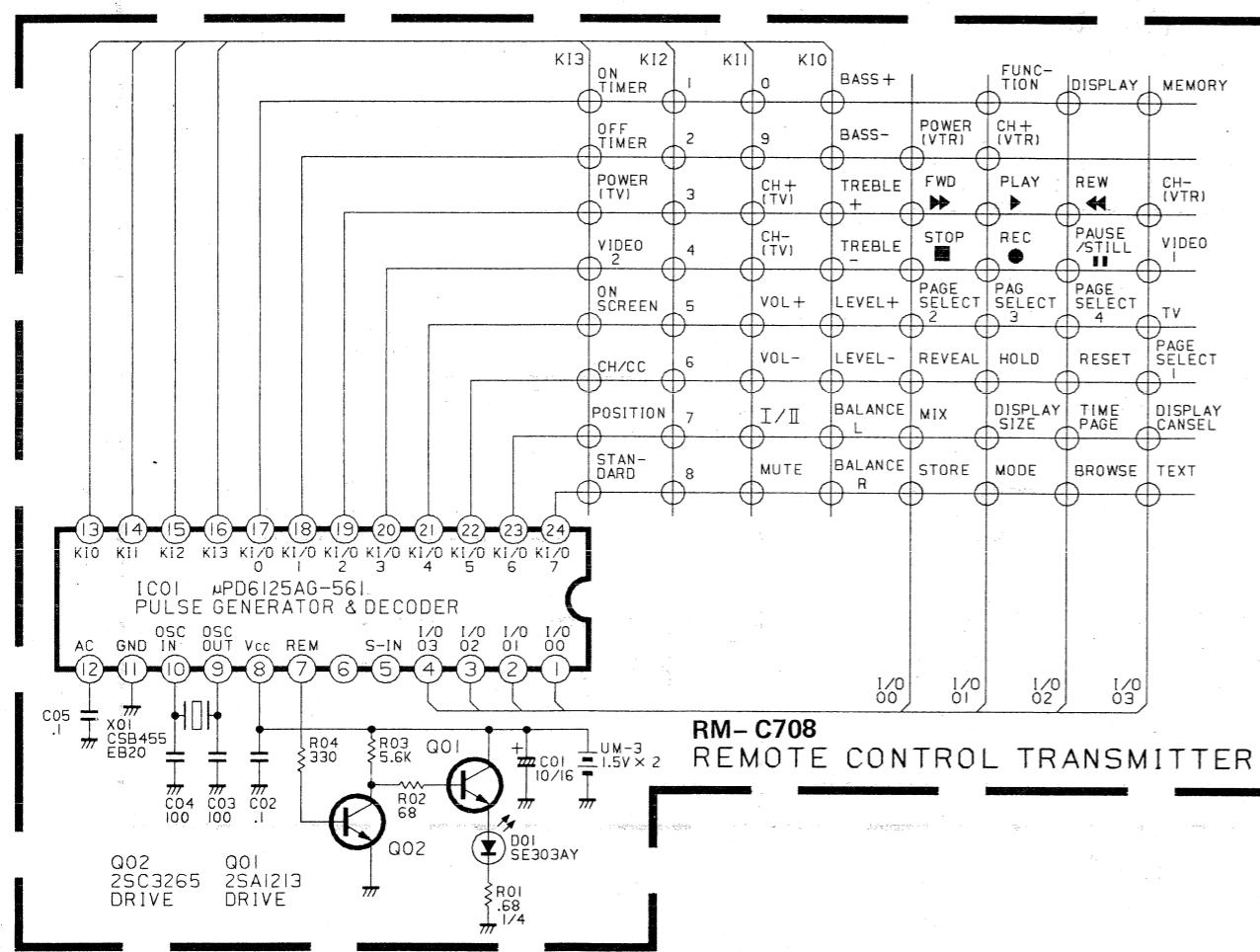
A/V TERMINAL PCB SCHEMATIC DIAGRAM



MICOM SUPPORT PCB SCHEMATIC DIAGRAM

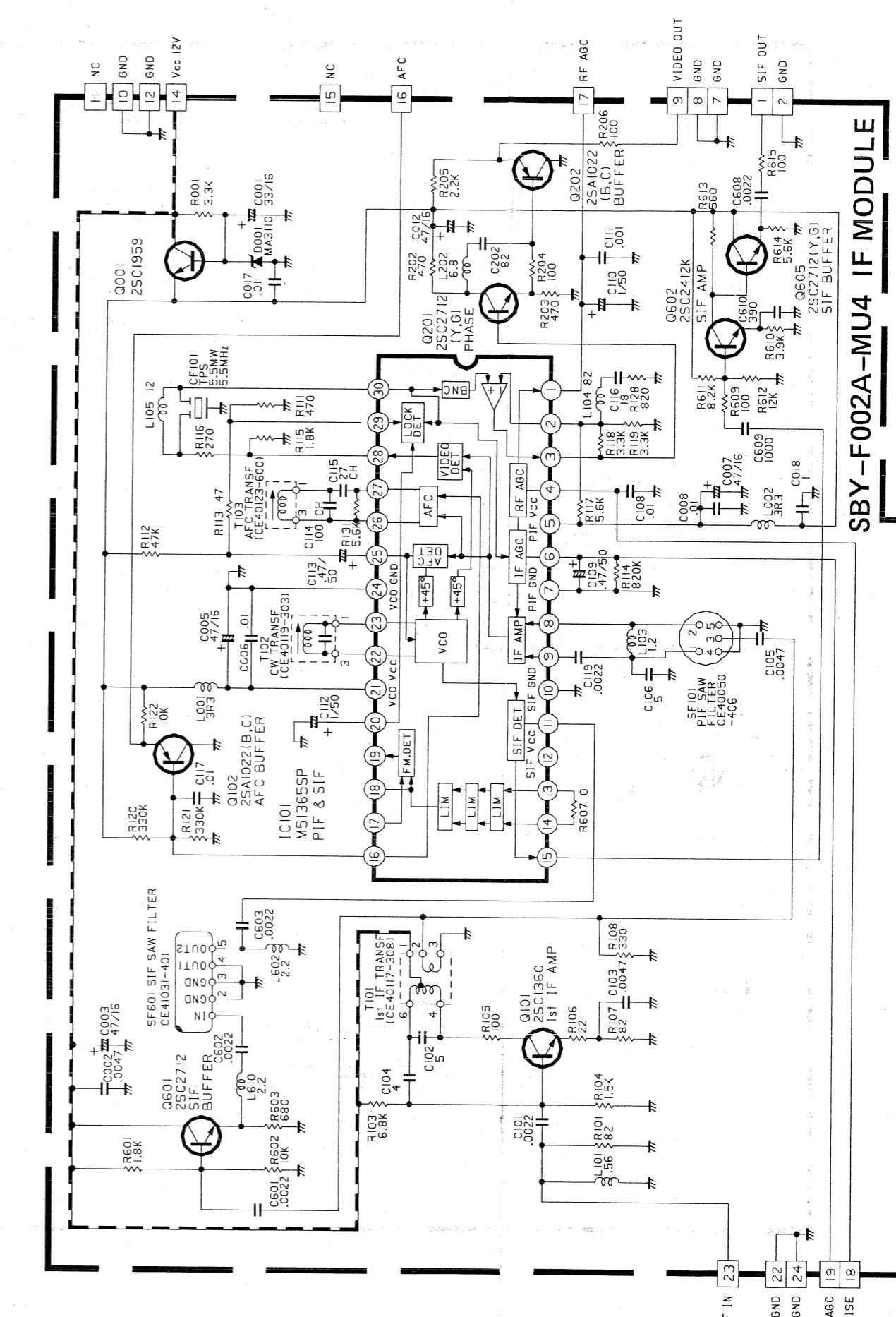


REMOTE CONTROL TRANSMITTER SCHEMATIC DIAGRAM



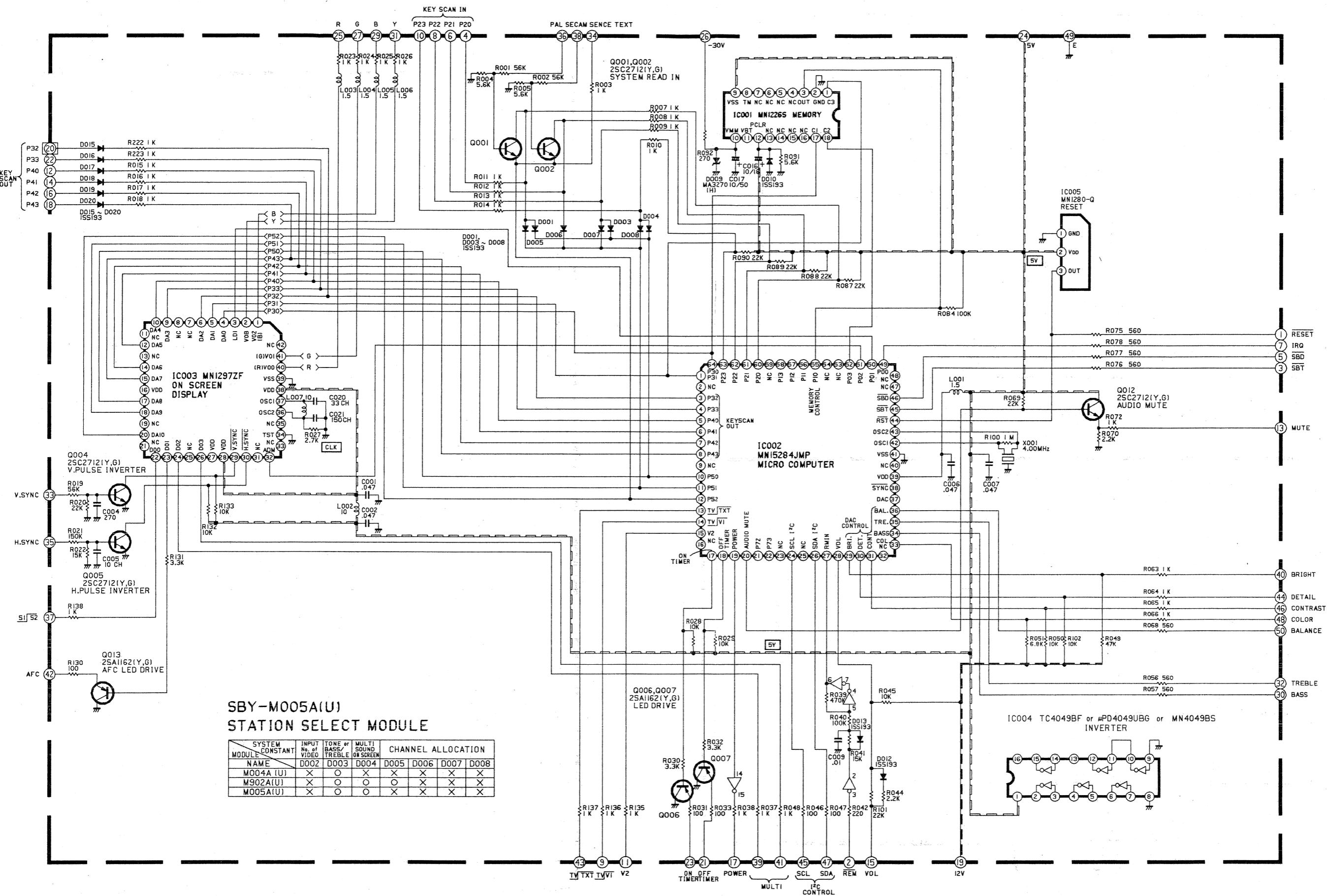
(A) AV-S250ENT AV-S250ENT

IF MODULE SCHEMATIC DIAGRAM



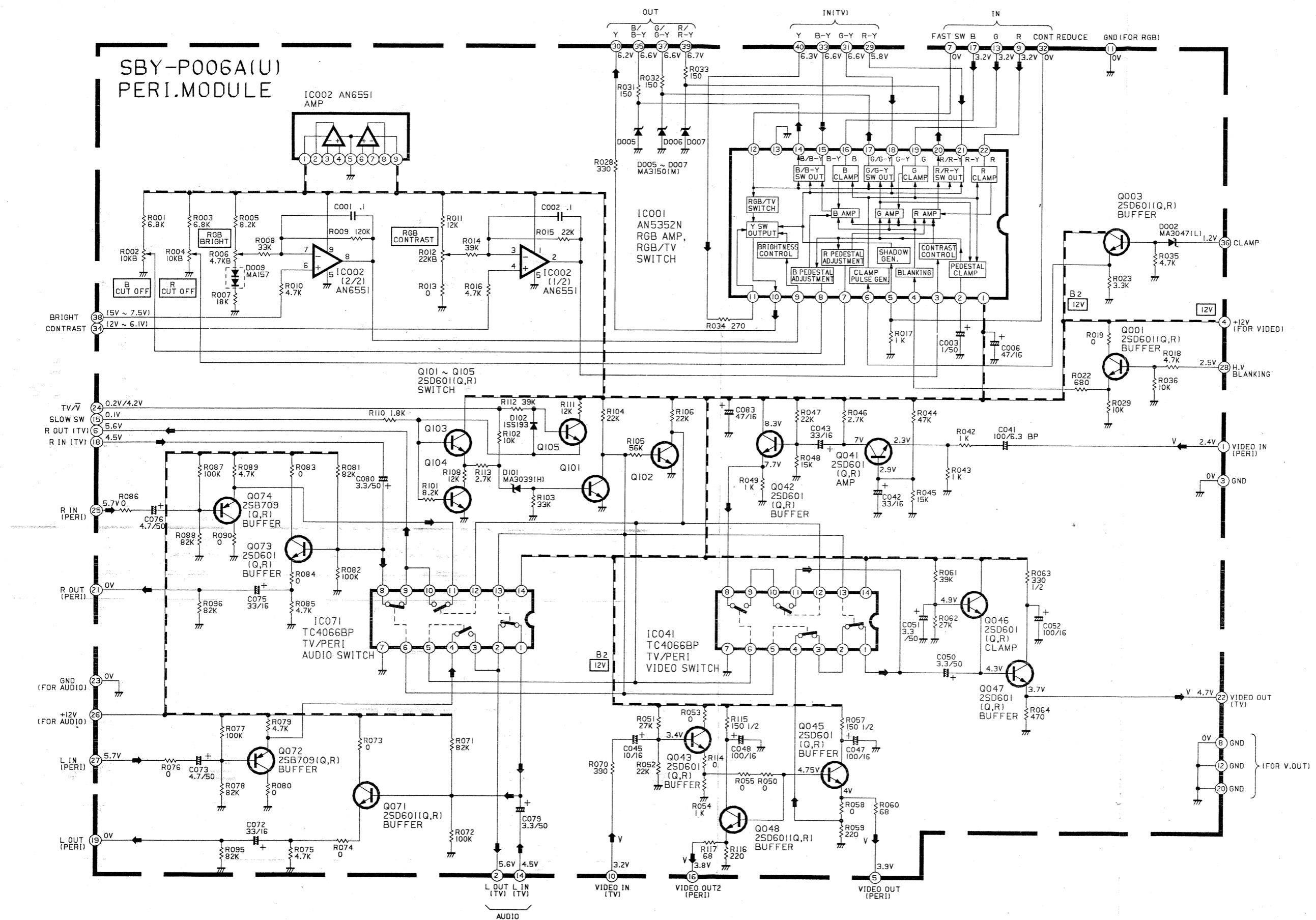
STATION SELECT MODULE SCHEMATIC DIAGRAM

AV-S250ENT AV-S250ENT



PERI MODULE SCHEMATIC DIAGRAM

(A) AV-S250ENT AV-S250ENT

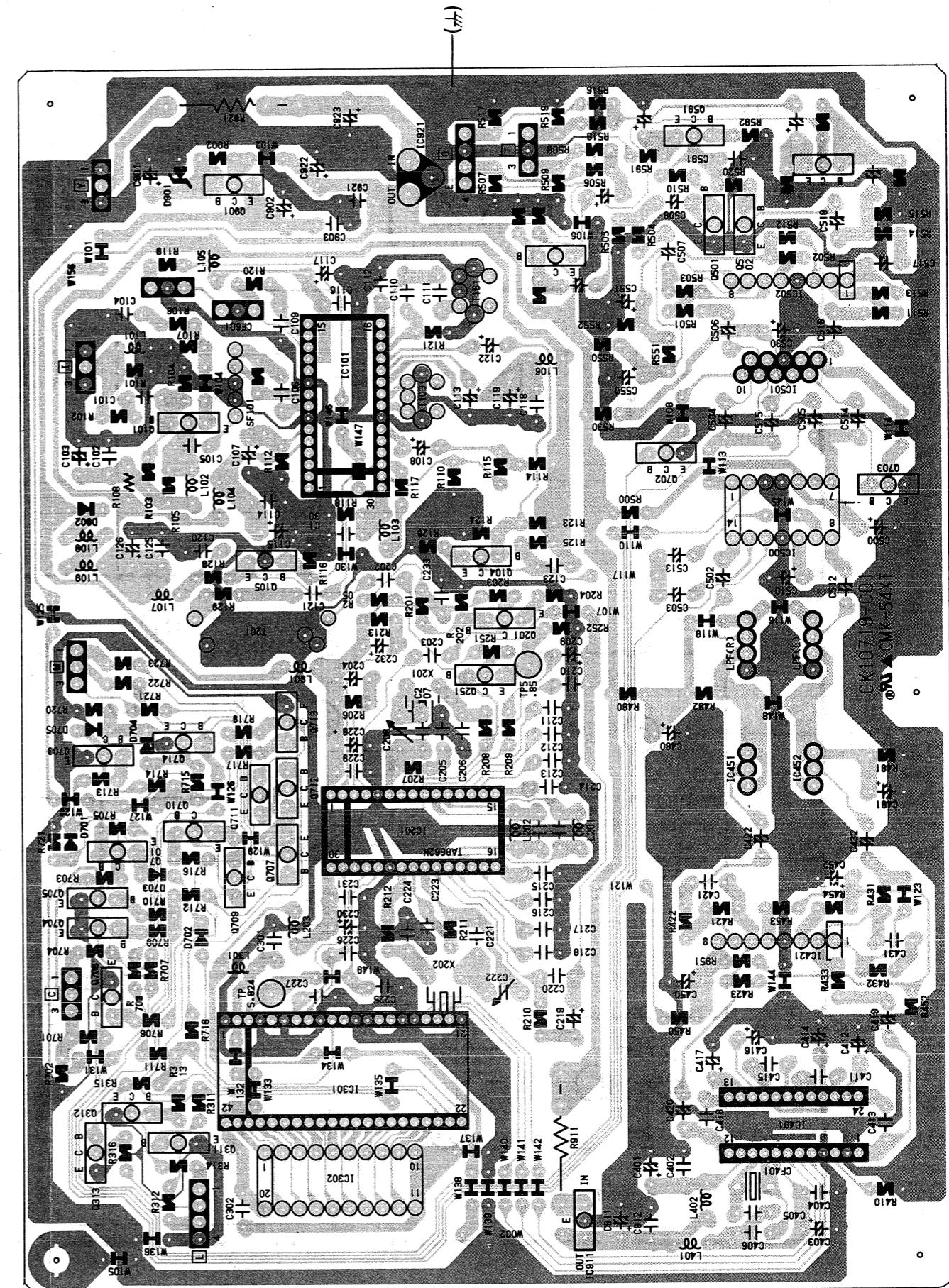
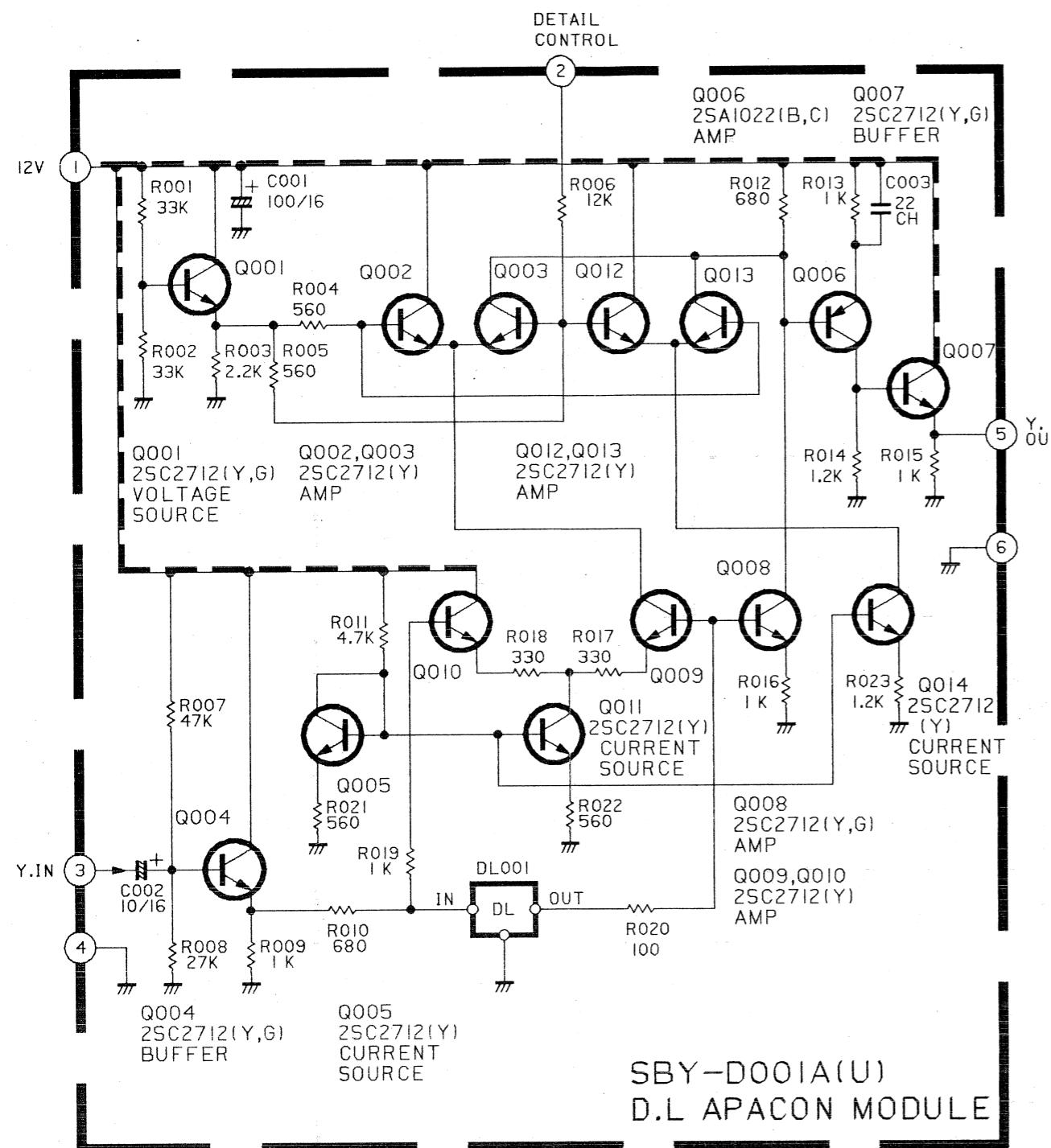


D.L. APACON MODULE SCHEMATIC DIAGRAM

(A) AV-S250ENT

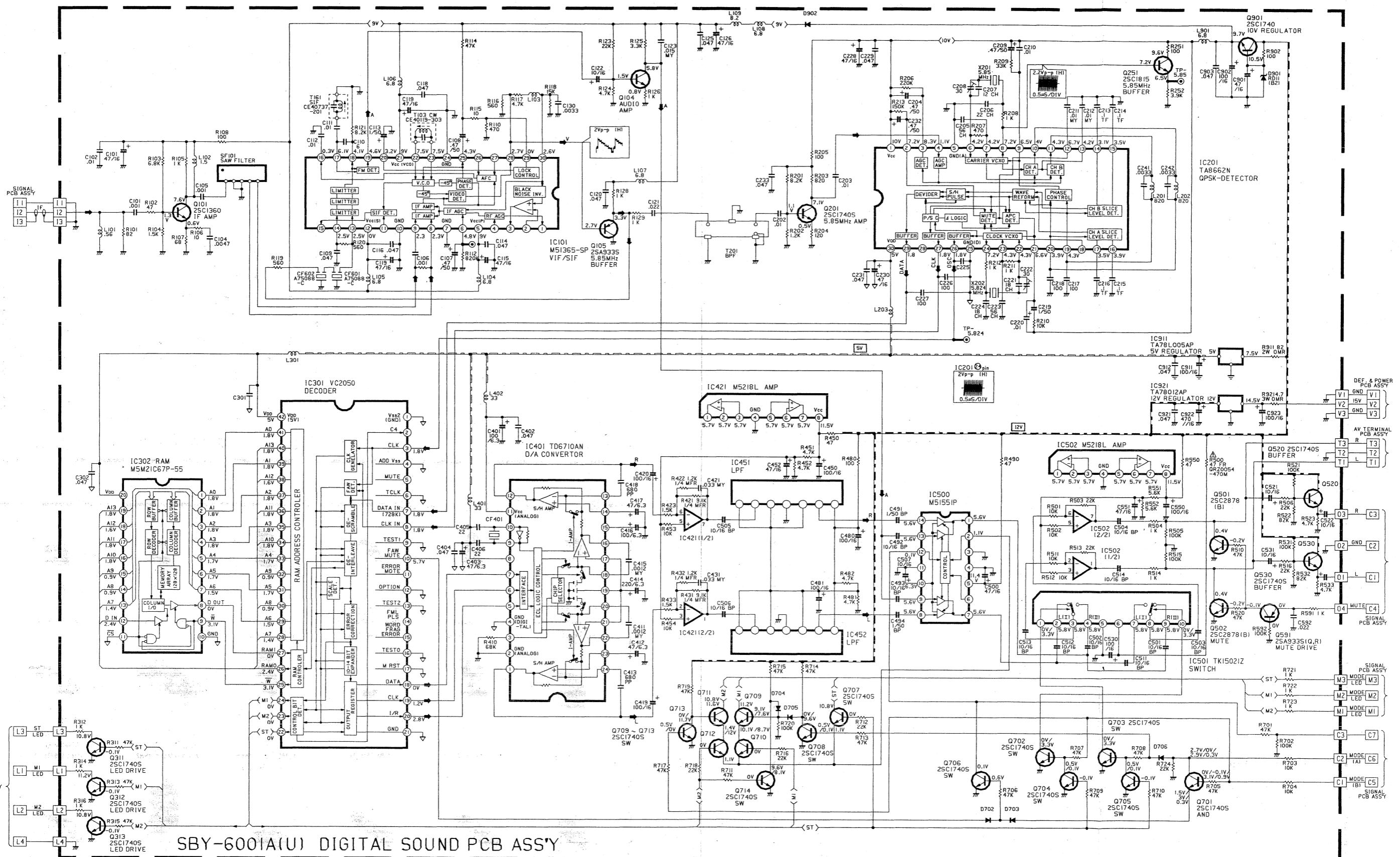
AV-S250ENT

DIGITAL SOUND PCB BACK PATTERN

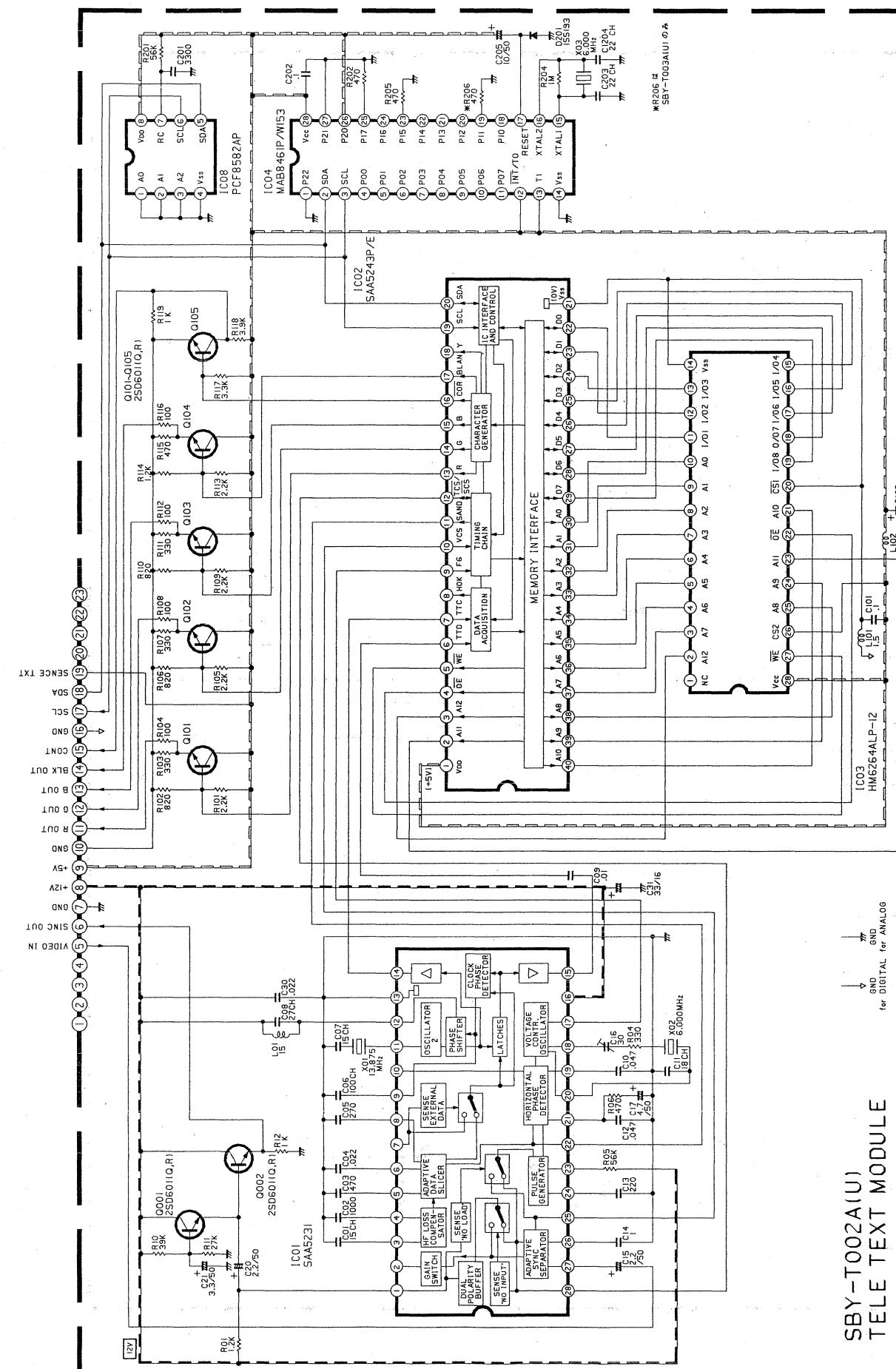


DIGITAL SOUND PC BOARD SCHEMATIC DIAGRAM

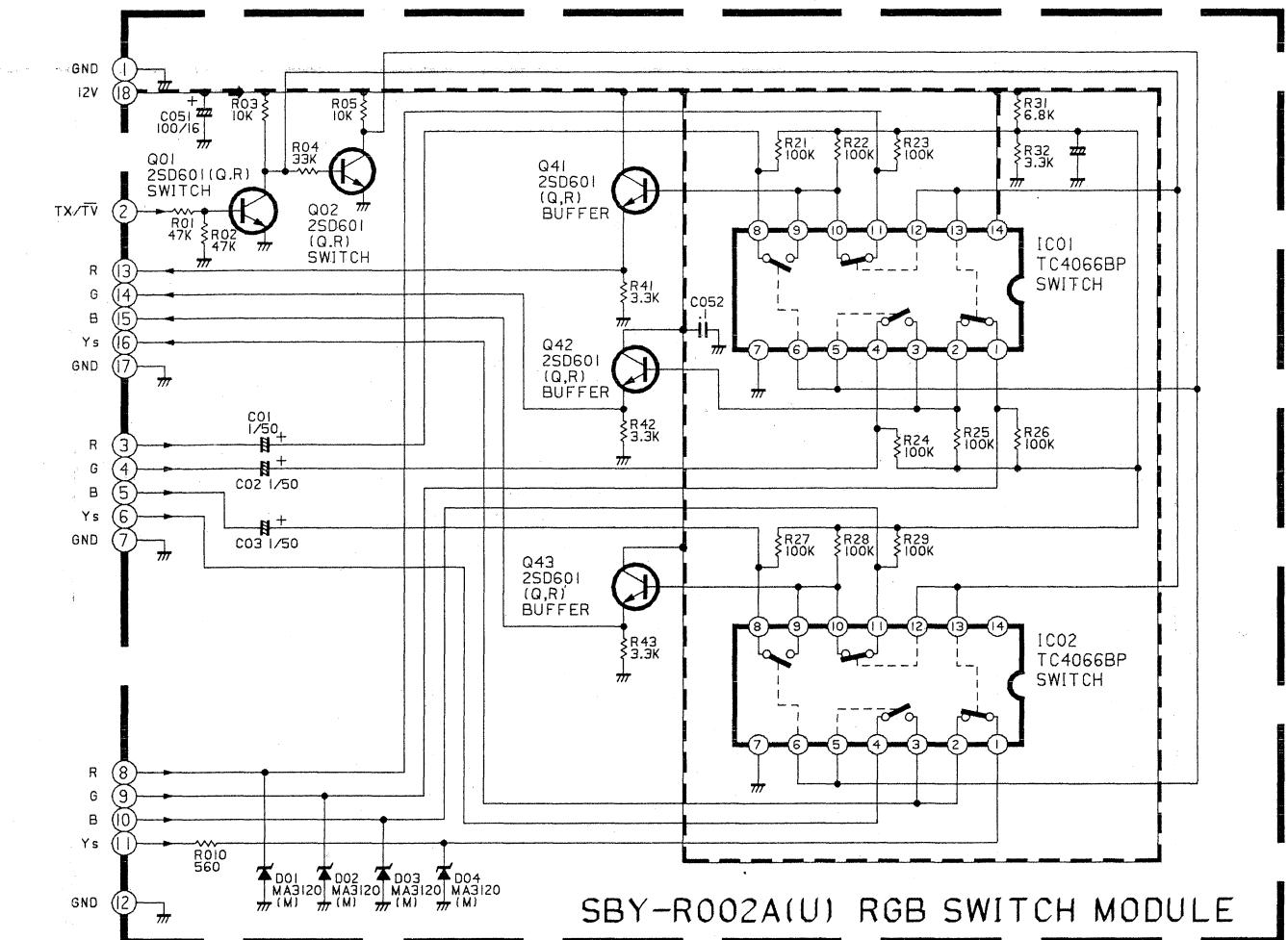
(A) AV-S250ENT AV-S250ENT



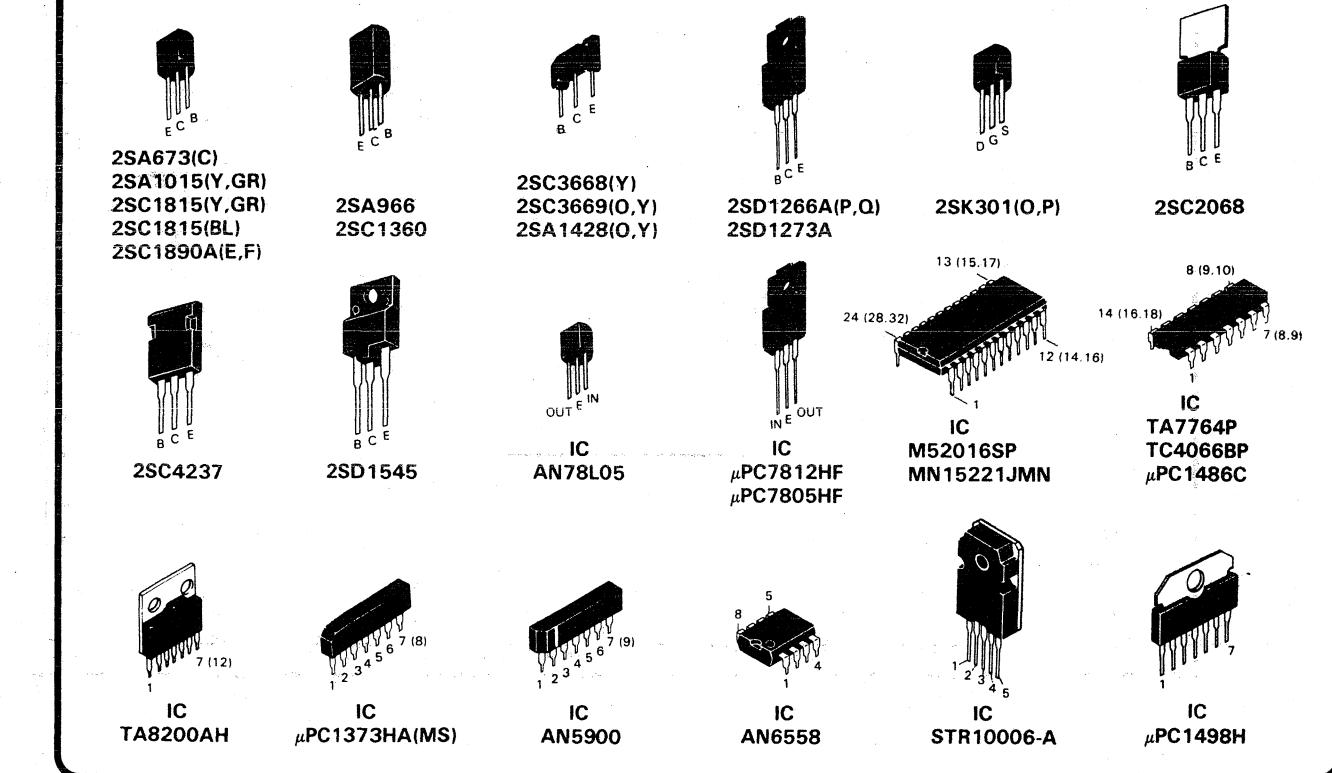
TELETEXT MODULE SCHEMATIC DIAGRAM



AV-S250ENT AV-S250ENT RGB SWITCH MODULES SCHEMATIC DIAGRAM



Basing of Transistor & ICs



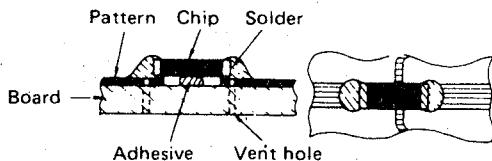
REPLACEMENT OF THE CHIP

* CHIPS ARE NOT USED ON CERTAIN MODELS. REFER TO THE DESCRIPTIONS ON THIS PAGE ONLY WHEN WORKING ON MODELS ON WHICH CHIPS ARE EMPLOYED.

* Replacement of the chip on printed circuit board can be performed easily as follows.

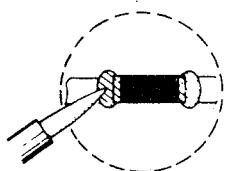
1 When mounted

[Resistor · Capacitor]

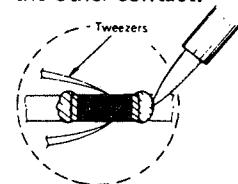


2 Removal of the chip

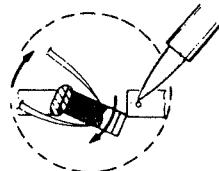
(1) Remove either of the soldered contacts.



(2) Hold the chip with tweezers and remove the other contact.



(3) Work the chip free from the adhesive with tweezers.

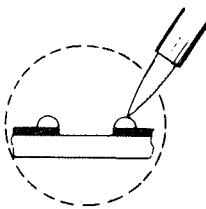


3 Preheating and soldering of chip pieces

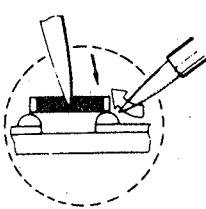
Be sure to preheat chip pieces (except the transistor) especially the capacitor before soldering with hot air, about 150°C (hair dryer or such can be used) for about 2 minutes. Then, immediately solder with an iron of about 30W.

4 Replacing the chip pieces

(1) Apply the solder to the board first.



(2) Hold the chip with tweezers and solder it in place, hold the iron at a 45° angle when soldering.

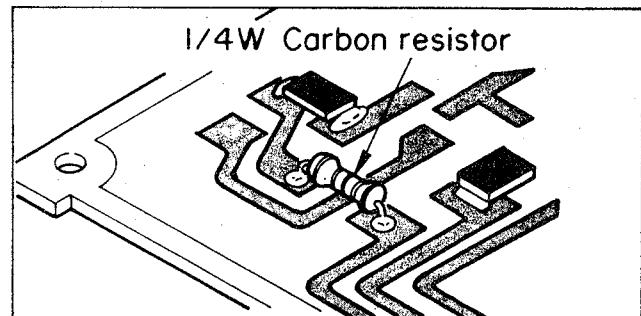


■ Discrete parts can be substitutionally mounted as shown in the figure on the right.

Mounting is also possible by passing the wires from the board front side (parts side) through the chip soldering hole (vent hole of registration part).

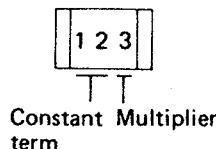
Substitute parts are as follows.

- Chip Metal Glaze Resistor
→ Carbon Resistor 1/4W ±5%
- Chip Ceramic Capacitor
→ Ceramic Capacitor 50V ±5%



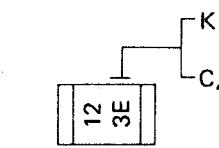
■ Decoding of chip parts constant terms

< Chip Metal Glaze Resistor >



$12 \times 10^3 = 12000\Omega$
= 12kΩ

< Chip Ceramic Capacitor >



$12 \times 10^3 = 12000\text{pF}$
= 0.012μF

K, M, Z, P Tolerance of ordinary type
C, P, R, S, T, U .. Temperature coefficient of temperature compensation type